

ADDENDUM II

ADR Submittal, Certification and Approval

P/N DRAFT

**Level II Antidegradation Review
DWQ Internal Review Completion Checklist**

Facility Name: Sunnyside Cogeneration Associates
UPDES Permit Number: UT0024759
Date of Application: May 2012

Water Quality Management Section

Responsibility: Reviews the ADR for completeness and general conformance with ADR rules and guidance. Technical review, determination and rank of the Parameters of Concern for treatment alternative consideration. Reviews the Statement of Social and Economic Importance and consults, as needed, with Director regarding determination that discharge and water quality degradation is necessary for a socially and/or economically important reason. Ensures public notification was conducted.

Reviewer: Nicholas von Stackelberg, P.E.

Signature: Nicholas von Stackelberg

Review Completion Date: 8/7/2012

UPDES Section

Responsibility: Reviews the ADR for consistency with UPDES permit application. For non-POTW discharges, technical review of the Alternatives Analysis and selection of the least degrading, reasonable (feasible and affordable) treatment alternative.

Reviewer: Permit Writer

Signature: Michael P. Burkner

Review Completion Date: 8/8/2012

Engineering Section

Responsibility: For POTW discharges, technical review of the Alternatives Analysis and selection of the least degrading, reasonable (feasible and affordable) treatment alternative. May be consulted on non-POTW discharges.

Engineering Section review not requested.

Reviewer: Engineer

Signature: _____

Review Completion Date: _____

Watershed Protection Section

Responsibility: Reviews the ADR for conformance and consistency with TMDL and watershed protection goals.

Watershed Protection Section review not requested.

Reviewer: Watershed Coordinator

Signature: _____

Review Completion Date: _____

mike H.



Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

July 13, 2012



Michael Herkimer
Division of Water Quality
195 North 1950 West
Salt Lake City, UT 84116

Re: Sunnyside Cogeneration Associates (SCA)
UPDES Permit # UT0024759
Anti-Degradation Review Application

Dear Mike,

Attached is SCA's revised submittal of the Anti-Degradation Review Application (ADR) associated with its request to renew UPDES Permit # UT0024759 and add one new outfall discharge point associated with the SCA #2 Ash Landfill Sediment Pond, Outfall #018. The original application was submitted on May 11, 2012.

Other than the addition of Outfall #018, no other changes are requested to the existing UPDES Permit and no increase in concentration or loading limits are requested. SCA requests that the limits associated with Outfall #018 match those in the existing permit for Outfall #017 since the sediment pond associated with Outfall #017 controls the storm water runoff from the SCA #1 Ash Landfill. Conditions are expected to be similar between SCA #1 and SCA #2 Ash Landfills.

As additional reference for this request, SCA is including Discharge Monitoring Reports from the storm water events during the past 20 years that have resulted in a discharge from Outfalls #015 and #017, both associated with the SCA #1 Ash Landfill (Outfall #015 no longer exists). The analytical results received from these discharges were used to represent the expected potential effluent concentration that could be expected from a storm water event larger than the designed 10 year 24 hour storm associated with the SCA #2 Ash Landfill Sediment Pond (Outfall #018).

Given the history of SCA's operational success, we expect that the potential for a discharge from Outfall #018 will be minimal and if a discharge occurs the chance of degradation to the receiving waters is negligible.

DW

Document Date 7/17/2012



DWQ-2012-002380

SCA
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If you have any questions regarding the information submitted or our requested UPDES Permit renewal, please contact Rusty Netz or myself at (435) 888-4476.

Thank You,



Richard Carter

Agent for
Sunnyside Cogeneration Associates

c.c. Steve Gross
Maggie Estrada
Rusty Netz
Plant File

ANTIDEGRADATION REVIEW APPLICATION

UTAH DIVISION OF WATER QUALITY

Introduction

The objective of antidegradation rules and policies is to protect existing high quality waters and set forth a process for determining where and how much degradation is allowable for socially and/or economically important reasons.

In accordance with Utah Administrative Code (UAC R317-2-3), an antidegradation review (ADR) is a permit requirement for any project that will increase the level of pollutants in waters of the state. The rule outlines requirements for both Level I and Level II ADR reviews, as well as public comment procedures. This application is intended to assist the applicant and Division of Water Quality (DWQ) staff in complying with the rule but is not a substitute for the complete rule in R317-2-3.5. Additional details can be found in the *Utah Antidegradation Implementation Guidance* and relevant sections of the guidance are cited in this application form.

ADRs should be among the first steps of an application for a UPDES permit because the review helps establish project design expectations. ADRs are also required for any project taking place within a stream channel and for applications to fill wetlands as part of the Army Corps of Engineers 404 permitting process. The level of effort and amount of information required for the ADR depends on the nature of the project and the characteristics of the receiving water. To avoid unnecessary delays in permit issuance, the Division of Water Quality (DWQ) recommends that the process be initiated at least one year prior to the date a final approved permit is required.

This antidegradation application must be completed and approved by DWQ before any UPDES permit can be issued. DWQ will determine if the project will impair beneficial uses (Level I ADR) using information provided by the applicant. The applicant is responsible for conducting the Level II ADR, if necessary. For the permit to be approved, the Level II ADR must document that all feasible measures have been undertaken to minimize pollution for social or economically beneficial projects resulting in any increase in pollution to waters of the state.

Parts A, B, D, and G are required for all permits, whereas Parts C, E, and F are only required for Level II ADRs.

Once the application is complete, it should be signed, dated, and submitted to the DWQ staff member who is responsible for the UPDES permit or 401 Certification.

For additional clarification on the antidegradation application process and procedures, please contact Nicholas von Stackelberg (801-536-4374) or Jeff Ostermiller (801-536-4370).

Antidegradation Review Application

Part A: Applicant Information

Facility Name: Sunnyside Cogeneration Associates

Facility Owner: Sunnyside Cogeneration Associates (SCA)

Facility Location: Sunnyside and East Carbon, Utah

Application Prepared By: Twin Peaks, PC (Engineering Consultant) and SCA

Receiving Water: Grassy Trail Creek and Icelander Creek

What Are the Designated Uses of the Receiving Water (R317-2-6)?

Domestic Water Supply: None

Recreation: 2B - Secondary Contact

Aquatic Life: 3C - Nongame Fish

Agricultural Water Supply: 4

Great Salt Lake: None

Category of Receiving Water (R317-2-3.2, -3.3, and -3.4): Category ³2: Grassy Trail and Icelander are tributary to the Price River and part of the Green River Drainage

UPDES Permit Number (if applicable): UT0024759

Effluent Flow Reviewed:

What is the application for? (check all that apply)

- An application for a UPDES permit for a new facility or project.
- An expansion or modification of an existing wastewater treatment works that will result in an increase in the mass or concentration of a pollutant discharged to waters of the state.
- A permit renewal requesting addition of one new sediment pond outfall with limits identical to an existing sediment pond outfall covered by the previous permit.
- An expansion or modification of an existing wastewater treatment works that will result in an increase in volume discharged over the volume used to obtain previous permit limits.
- A proposed UPDES permit renewal with no changes in facility operations.

Part B. Is a Level II ADR required?

This section of the application is intended to help applicants determine if a Level II ADR is required for specific permitted activities. In addition, the Executive Secretary may require a Level II ADR for an activity with the potential for major impact on the quality of waters of the state (R317-2-3.5a.1).

B1. The receiving water or downstream water is a Class 1C drinking water source.

- Yes** A Level II ADR is required (Proceed to Part C of the Application)
- No** (Proceed to Part B2 of the Application)

The receiving waters downstream from the SCA facilities are Grassy Trail Creek and Icelander Creek. Neither of these is a Class 1C drinking water source. Designated uses include Class 2B Secondary Contact Recreation, Class 3C Nongame Fish and Class 4 Agricultural water supply. Flows from these two creeks are tributary to the Price River and therefore part of the overall Green River Drainage Basin, a Category 2 water.

B2. The UPDES permit is new or is being renewed and the proposed effluent concentration and loading limits are higher than the concentration and loading limits in the previous permit and any previous antidegradation review(s).

- Yes** (Proceed to Part B3 of the Application)
- No** No Level II ADR is required and there is no need to proceed further with application questions.

SCA is requesting a renewal of its existing UPDES permit with no changes to concentrations or loading limits from the current outfall points.
SCA is requesting the addition of a new outfall #018 - SCA #2 Ash Landfill Sediment Pond. This proposed sediment pond is to control storm water runoff from the proposed SCA#2 Ash Landfill. In the event of an extra-large storm event, the sediment pond could discharge to an intermittent drainage which would contribute to the upper end of Icelander Creek. SCA is requesting concentration and loading limits identical to the existing outfall #017 associated with a sediment pond which controls storm water runoff from the existing SCA#1 Ash Landfill and also has its outfall to Icelander Creek.
It is SCA's intent to construct the proposed sediment pond #018 with sufficient excess capacity to render the potential for discharge from a 10 year 24 hour storm negligible. Nonetheless, the outfall is requested to address the potential for larger storms.

B3. Will any pollutants use assimilative capacity of the receiving water, i.e. do the pollutant concentrations in the effluent exceed those in the receiving waters at critical conditions? For most pollutants, effluent concentrations that are higher than the ambient concentrations require an antidegradation review? For a few

pollutants such as dissolved oxygen, an antidegradation review is required if the effluent concentrations are less than the ambient concentrations in the receiving water. (Section 3.3.3 of Implementation Guidance)

Yes (Proceed to Part B4 of the Application)

No No Level II ADR is required and there is no need to proceed further with application questions.

SCA has operated for approximately 20 years with UPDES permit # UT0024759. During that time, very few discharges have occurred. Use of the assimilative capacity of receiving water is minimal especially when we recognize that storm water discharges from SCA's sediment ponds have received a significant degree of settlement treatment and the natural conditions of these local streams are noticeably sediment laden during major storm events.

The proposed sediment pond #018 has not yet been constructed. Hence, no sampling has been taken for discharges or treated water in this pond. Since the segment of this drainage that will serve as the "receiving waters" is an ephemeral wash, SCA is still waiting for a storm event great enough to produce flow in this area. SCA plans to sample the actual "receiving waters" at such time when flow exists.

Given that no direct sampling has yet occurred, SCA is utilizing the existing sample data from the three discharges that have occurred during the past 20 years at outfall points #015 and #017 near the SCA#1 Ash Landfill on the presumption that these may be similar to the storm waters that could be detained in the proposed sediment pond #018. SCA is also utilizing the sampling that has occurred at the ICE-1 monitoring location on Icelander Creek near the SCA #1 Ash Landfill to represent ambient conditions. (See attached)

Again, no changes are requested to the existing permit outfalls and the proposed outfall #018 is requested to have concentration and loading limits matching the existing outfall #017 point. SCA believes that operation of the proposed sediment pond #018 with these concentration and loading limits will result in minimal impact (and likely a net improvement) to the receiving waters, well within the available assimilative capacity of Icelander Creek.

B4. Are water quality impacts of the proposed project temporary and limited (Section 3.3.4 of Implementation Guidance)? Proposed projects that will have temporary and limited effects on water quality can be exempted from a Level II ADR.

- Yes** Identify the reasons used to justify this determination in Part B4.1 and proceed to Part G. No Level II ADR is required.
- No** A Level II ADR is required (Proceed to Part C)

The SCA facilities are expected to operate for more than the next 10 years. Generally potential discharges from permitted outfalls and the proposed outfall #018 to Icelander Creek are limited to storm water related discharges with sediment as the normal pollutant. Potential discharges from permitted outfalls to Grassy Trail Creek are associated with draining the well water transmission pipeline. As previously stated, normal operations at SCA are intended to occur with very few discharges.

B4.1 Complete this question only if the applicant is requesting a Level II review exclusion for temporary and limited projects (see R317-2-3.5(b)(3) and R317-2-3.5(b)(4)). For projects requesting a temporary and limited exclusion please indicate the factor(s) used to justify this determination (check all that apply and provide details as appropriate) (Section 3.3.4 of Implementation Guidance):

- Water quality impacts will be temporary and related exclusively to sediment or turbidity and fish spawning will not be impaired.

N/A – The SCA facilities are not considered temporary

Factors to be considered in determining whether water quality impacts will be temporary and limited:

- a) The length of time during which water quality will be lowered:
- b) The percent change in ambient concentrations of pollutants:
- c) Pollutants affected:
- d) Likelihood for long-term water quality benefits:
- e) Potential for any residual long-term influences on existing uses:
- f) Impairment of fish spawning, survival and development of aquatic fauna excluding fish removal efforts:

Additional justification, as needed:

Level II ADR

Part C, D, E, and F of the application constitute the Level II ADR Review. The applicant must provide as much detail as necessary for DWQ to perform the antidegradation review. Questions are provided for the convenience of applicants; however, for more complex permits it may be more effective to provide the required information in a separate report. Applicants that prefer a separate report should record the report name here and proceed to Part G of the application.

Optional Report Name: *No additional report, but we have attached applicable discharge monitoring information and ambient monitoring data for Iceland Creek*

Part C. Is the degradation from the project socially and economically necessary to accommodate important social or economic development in the area in which the waters are located? *The applicant must provide as much detail as necessary for DWQ to concur that the project is socially and economically necessary when answering the questions in this section. The social and economic importance of publicly owned treatment works (POTWs) are typically considered self-evident and do not require detailed explanation. More information is available in Section 6.2 of the Implementation Guidance.*

C1. The facility is a POTW and is necessary for economic and social growth of the serviced community.

- Yes (Proceed to Part D of the Application)
- No (Proceed to Part C2 of the Application)

C2. Describe the social and economic benefits that would be realized through the proposed project, including the number and nature of jobs created and anticipated tax revenues.

The SCA power plant burns waste fuel and provides dozens of jobs, both directly through plant operations, and indirectly through contractor positions and suppliers. SCA supplies electric power to the local power grid. SCA is a major tax contributor to the local area.

SCA is part of the overall mining and energy production industry which is an essential part of the local, state and global economy. Continued operation of SCA brings important social and economic benefits to the area.

C3. Describe any environmental benefits to be realized through implementation of the proposed project.

Removal of the waste fuel left behind by others through the past decades of mining in the area results in an efficient use of natural resources and reclamation of the existing refuse piles. Operations occur in a manner which protects air quality, surface waters and groundwater in the region.

The proposed SCA#2 Ash Landfill will reduce material haul distances, and reduce the potential for fugitive dust near local residences. In addition to controlling storm water runoff from the proposed SCA#2 Ash Landfill, the proposed sediment pond #018 will capture sediments currently eroding from the 40-50 acre watershed area and will also capture potential discharges from two existing sediment pond outfalls #008 and #016.

C4. Describe any social and economic losses that may result from the project, including impacts to recreation or commercial development.

The SCA facilities have been operating for approximately 20 years. No losses are expected from the continued operations of the project.

The proposed addition of the SCA#2 Ash Landfill and associated sediment pond #018 has been located in an area on private property owned by SCA and not currently used for recreation or commercial development. No losses are expected.

C5. Summarize any supporting information from the affected communities on preserving assimilative capacity to support future growth and development.

The towns of Sunnyside and East Carbon are located north and northwest of the main SCA facilities and are receiving their domestic water from the Grassy Trail Reservoir several miles north and upstream from town.

Operations at SCA are such that overall water quality effects to downstream water uses (recreation, aquatic and agriculture) are minor or negligible at worst and are positive at best.

The proposed addition of the SCA#2 Ash Landfill and associated sediment pond #018 has been located in an area such that the assimilative capacity of Icelander Creek will not be adversely affected and the overall effect on the local communities is positive.

Operation of the SCA facilities is an important part of the growth and development of the local communities.

C6. Please describe any structures or equipment associated with the project that will be placed within or adjacent to the receiving water.

SCA will construct the proposed sediment pond #018 near the upper end of Icelander Creek. This sediment pond will control storm water runoff from the area within and immediately surrounding the proposed SCA#2 Ash Landfill. The sediment pond is proposed to have capacity larger than the calculated 10 year 24 hour storm water runoff in an effort to reduce the potential for discharges.

Part D. Identify and rank (from increasing to decreasing potential threat to designated uses) the parameters of concern. Parameters of concern are parameters in the effluent at concentrations greater than ambient

concentrations in the receiving water. The applicant is responsible for identifying parameter concentrations in the effluent and DWQ will provide parameter concentrations for the receiving water. More information is available in Section 3.3.3 of the Implementation Guidance.

Parameters of Concern:

Rank	Pollutant	Ambient Concentration	Effluent Concentration
1	Oil & Grease	0.18 mg/l	20 mg/l
2	Total Suspended Solids	16.18 mg/l	100 mg/l
3	Total Dissolved Solids	1629 mg/l	1650 mg/l
4	Total Chromium	unknown	0.03 mg/l
5	Total Zinc	unknown	0.3 mg/l
6	pH	8.24	6.5 to 9.0

Pollutants Evaluated that are not Considered Parameters of Concern:

Pollutant	Ambient Concentration	Effluent Concentration	Justification
See attached Ice-1	Ambient monitoring results		

Effluent concentrations listed are based on maximum current permit limits for the existing sediment pond outfall #017 near SCA#1 Ash Landfill. SCA has attached the discharge monitoring results from the 3 discharges that have occurred near SCA#1 Ash Landfill during the past 20 years, and each of these found the concentrations to be less than the permit limits.

Ambient concentrations shown are the average of the 1996 through 2011 quarterly monitoring results obtained by SCA in Iceland Creek at the Ice-1 monitoring location near SCA #1 Ash Landfill. These monitoring periods generally occur during non-storm event times so they are not greatly influenced by the natural storm runoff conditions in the area.

For your additional reference, SCA has attached a statistical summary of the parameters analyzed over the 1996-2011 monitoring period at Ice-1. This summary provides a variety of information about the flow in Iceland Creek at that location. You will notice that although monitoring occurred each quarter for 16 years, many periods found the stream to be dry or frozen with no flow, which has provided for a lesser number of samples analyzed. For statistical averaging purposes, we have presumed a 0 concentration for samples where a parameter was found to be less than the detectable limit. This may have predicted an average ambient concentration slightly less than actual.

Since the segment of Iceland Creek just downstream from the proposed outfall #018 is normally dry, typical ambient concentrations expected during storm events in the creek at that location would likely be much higher in sediment related pollutants and the total contaminant parameters.

Part E. Alternative Analysis Requirements of a Level II

Antidegradation Review. *Level II ADRs require the applicant to determine whether there are feasible less-degrading alternatives to the proposed project. More information is available in Section 5.5 and 5.6 of the Implementation Guidance.*

E1. The UPDES permit is being renewed without any changes to flow or concentrations. Alternative treatment and discharge options including changes to operations and maintenance were considered and compared to the current processes. No economically feasible treatment or discharge alternatives were identified that were not previously considered for any previous antidegradation review(s).

Yes (Proceed to Part F)

No or Does Not Apply (Proceed to E2)

SCA is not proposing any changes to the existing permitted outfalls, their concentrations or loading limits.

SCA is proposing construction of sediment pond #018 near the upper end of Icelander Creek. This proposed sediment pond will control storm water runoff from the area within and immediately surrounding the proposed SCA#2 Ash Landfill. The sediment pond is proposed to have capacity larger than the calculated 10 year 24 hour storm water runoff in an effort to reduce the potential for discharges. SCA requests concentration and loading limits matching the existing limits for outfall #017.

E2. Attach as an appendix to this application a report that describes the following factors for all alternative treatment options (see 1) a technical description of the treatment process, including construction costs and continued operation and maintenance expenses, 2) the mass and concentration of discharge constituents, and 3) a description of the reliability of the system, including the frequency where recurring operation and maintenance may lead to temporary increases in discharged pollutants. Most of this information is typically available from a Facility Plan, if available.

Report Name:

E3. Describe the proposed method and cost of the baseline treatment alternative. The baseline treatment alternative is the minimum treatment required to meet water quality based effluent limits (WQBEL) as determined by the preliminary or final wasteload analysis (WLA) and any secondary or categorical effluent limits.

E4. Were any of the following alternatives feasible and affordable?

Alternative	Feasible	Reason Not Feasible/Affordable
Pollutant Trading	No	not an available option
Water Recycling/Reuse	Yes	SCA uses sediment pond water for dust control to the extent quantities allow
Land Application	Yes	SCA uses sediment pond water for dust control to the extent quantities allow
Connection to Other Facilities	No	no other facilities available
Upgrade to Existing Facility	No	existing sediment ponds are not available downstream of SCA#2 Ash Landfill
Total Containment	No	SCA has proposed construction of sediment pond #018 which will be large enough to contain the 10 year 24 hour storm. SCA would prefer to construct a sediment pond to ensure total containment of larger storms, but the topography of the area does not allow for this without impacting BLM property to the south. Since this is related to storm water flows, SCA still needs an approved outfall in the event of larger storms or multiple storms
Improved O&M of Existing Systems	No	existing sediment ponds are not available downstream of SCA#2 Ash Landfill
Seasonal or Controlled Discharge	No	discharges are related to the unpredictable occurrence of storms larger than the design storm.
New Construction	Yes	SCA intends to construct sediment pond #018
No Discharge	No	SCA has proposed construction of sediment pond #018 which will be large enough to contain the 10 year 24 hour storm. SCA would prefer to construct a sediment pond to ensure no discharge even from larger storms, but the topography of the area does not allow for this without impacting BLM property to the south. Since this is related to storm water flows, SCA still needs an approved outfall in the event of larger storms or multiple storms

E4. From the applicant's perspective, what is the preferred treatment option?

SCA's normal operations utilize the above noted feasible alternatives. The proposed outfall #018 is associated with the proposed construction of sediment pond #018 near the upper end of Icclander Creek. This sediment pond will control storm water runoff from the area within and immediately surrounding the proposed SCA#2 Ash Landfill. The sediment pond is proposed to have capacity larger than the calculated 10 year 24 hour storm water runoff in an effort to reduce the potential for discharges. SCA normally looks for opportunities to reuse detained storm water for dust control purposes rather than allowing a sediment pond to overflow from successive storms.

E5. Is the preferred option also the least polluting feasible alternative?

Yes

No

If no, what were less degrading feasible alternative(s)?

If no, provide a summary of the justification for not selecting the least polluting feasible alternative and if appropriate, provide a more detailed justification as an attachment.

Part F. Optional Information

F1. Does the applicant want to conduct optional public review(s) in addition to the mandatory public review? Level II ADRs are public noticed for a thirty day comment period. More information is available in Section 3.7.1 of the Implementation Guidance.

No

Yes

The addition of proposed sediment pond #018 is minor and is not expected to generate public interest. SCA believes that the typical 30 day public comment period associated with a Level II ADR would be sufficient to meet the public need.

F2. Does the project include an optional mitigation plan to compensate for the proposed water quality degradation?

No

Yes

Report Name:

SCA is requesting renewal of the existing UPDES permit with no changes to the existing concentrations or loading limits for the existing outfalls. The proposed construction of sediment pond #018 and the control and monitoring of any discharge from its corresponding outfall #018 are the mitigation plan to minimize the potential for water quality degradation. Construction of sediment pond #018 is anticipated to capture existing sediment laden storm runoff that is currently contributing to the natural degradation of Icelander Creek.

Part G. Certification of Antidegradation Review

G1. Applicant Certification

The application should be signed by the same responsible person who signed the accompanying permit application or certification.

Based on my inquiry of the person(s) who manage the system or those persons directly responsible for gathering the information, the information in this application and associated documents is, to the best of my knowledge and belief, true, accurate, and complete.

Print Name: Richard Carter
Signature: 
Date: 7/12/12

G2. DWO Approval

To the best of my knowledge, the ADR was conducted in accordance with the rules and regulations outlined in UAC R-317-2-3.

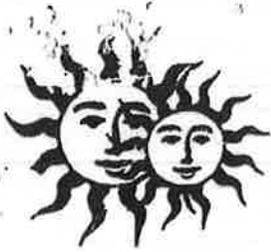
Water Quality Management Section

Print Name: Nicholas von Stackelberg
Signature: 
Date: 8/8/2012

SCA - MONITORING OF ICELANDER CREEK 1996-2011

	Minimum	Average	Maximum	Standard Deviation	Number of Samples
Acidity (mg/l as CaCO ₃)	< 5	< 5	< 5		6
Alkalinity Bicarbonate as CaCO ₃ (mg/l)	309	424	577	57.4	14
Alkalinity Bicarbonate as HCO ₃ (mg/l)	448	528	638	39.2	19
Alkalinity Carbonate as CO ₃ or CaCO ₃ (mg/l)	<1	10	47		33
Alkalinity Total as CaCO ₃ (mg/l)	338	441	577	41.6	32
Chloride (mg/l)	22.7	41	79	13.5	33
Sulfate (mg/l)	339	584	1673	318.6	33
Calcium Total (mg/l)	68.9	83.52	114.67	21.1	4
Calcium Dissolved (mg/l)	48	80.57	190.5	33.7	33
Hardness Total CaCO ₃ (mg/l)	427	627	1378	228.2	33
Magnesium Total (mg/l)	91.2	105.37	142.27	24.6	4
Magnesium Dissolved (mg/l)	71	102.54	219.15	35.3	33
Potassium Total (mg/l)	3.84	4.73	5.89	0.9	4
Potassium Dissolved (mg/l)	2.5	4.74	14.51	2.5	33
Sodium Dissolved (mg/l)	140	21.98	438.08	67	33
Sodium Total (mg/l)	166	193.75	244	36	4
Cations (meq/l)	14.99	22.5	47	7.8	28
Anions (meq/l)	15.76	22.7	44.9	7.3	28
Cation / Anion Balance %	-11.10%	-0.80%	4.90%	3.50%	26
Aluminum Dissolved (mg/l)	< 0.03	< 0.03	< 0.03		2
Arsenic Dissolved (mg/l)	< 0.01	< 0.01	< 0.01		2
Boron Dissolved (mg/l)	0.207	0.21	0	0	2
Cadmium Dissolved (mg/l)	< 0.001	< 0.001	< 0.001		2
Copper Dissolved (mg/l)	< 0.010	< 0.010	< 0.010		2
Iron Total (mg/l)	<0.1	0.31	2.28	0.47	33
Iron Dissolved (mg/l)	<0.01	0.02	0.15	0.04	33
Lead Dissolved (mg/l)	< 0.01	< 0.01	< 0.01		2
Manganese total (mg/l)	< 0.002	0.017	0.125		33
Manganese Dissolved (mg/l)	< 0.002	0.008	0.112		33
Molybdenum Dissolved (mg/l)	< 0.005	0.003	0.005		2
Selenium Dissolved (mg/l)	< 0.02	0.019	0.037		2
Zinc Dissolved (mg/l)	< 0.004	< 0.004	< 0.004		2
Conductivity (umhos/cm)	720	2016	6440	1052	22
Nitrogen Ammonia (mg/l as N)	< 0.01	0.05	0.1		2
Nitrogen Nitrate (mg/l as N)	< 0.05	0.03	0.04		2
Nitrogen Nitrite (mg/l as N)	< 0.03	<0.04	<0.05		2
Oil and Grease (mg/l)	<2	0.18	6.00		33
Oxygen, Dissolved (mg/l)	9.54	11.06	13.59	1.56	8
pH	7.78	8.24	8.49	0.26	13
pH Sample Temp. (deg C)	13.3	16.39	19.4	2.74	8
Phosphorous Ortho-PO ₄ (mg/l as P)	< 0.05	< 0.05	< 0.05		2
Phosphorous Total	0.24	0.24	0.24		1
Solids Settleable (ml/l)	<0.1		0.50		33
Solids Total Dissolved (mg/l)	984	1629	6989	1171	33
Solids Total Suspended (mg/l)	<5	16.18	121	25	33
Turbidity (NTU)	6.4	10.1	19.7	6.4	4

Water sampling performed by SCA at Ice-I monitoring location near SCA#1 Ash Landfill



Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (801) 888-4476 • Fax (801) 888-2538

July 22, 1998

Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P. O. Box 144870
Salt Lake City, Utah 84114-4870

Att: Mr. Michael Herkimer

Subject: June 1998, Monitoring Period
UPDES Permit No. UT0024759
Discharge Monitoring Report Forms
Sunnyside Cogeneration Facility

Dear Mike:

This letter summarizes the UPDES-permit field activities at the Sunnyside Cogeneration Facility during June, 1998. Rusty Netz, the Environmental Coordinator for the facility, physically inspected the permit outfalls in accordance with the UPDES permit guidelines.

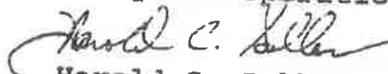
On June 16, 1998, water was released from SCA's ash landfill sedimentation basin(015), from the decant overflow line during a 24-hour precipitation event. The discharge was sampled for parameters in accordance with section I.D.6. of SCA's UPDES Permit. The discharge was also tested for the 126 priority pollutants, and tested in accordance with section I.D.11-Whole Effluent testing (Acute Toxicity).

The analytical results from the discharge are well below the discharge permit limitations, and show no detectable amounts present as a result of the 126 priority pollutant testing. Also the acute toxicity tests show NO significant effect on survival of Ceriodaphnia dubia neonates or Fathead Minnows larvae.

Michael Herkimer
Division of Water Quality
July 22, 1998
Page Two

If you have any questions or comments, please contact Rusty Netz at (435) 888-4476.

Thank You,
Sunnyside Operations Associates, L. P.



Harold C. Sallas
General Manager

Enclosures:

- Attachment A: Monitoring Report Forms
- Attachment B: Bio-Monitoring Report Forms
- Attachment C: Field Data Sheets
- Attachment D: Analytical Laboratory Report (Ash
Landfill Basin-015)
- Attachment E: Acute Whole Effluent toxicity Report

cc. Doug Burnham, B&W
Bob Evans, NRG
Ken Wyatt, DOGM
Rusty Netz, SOA
SCA Plant File

Attachment D



To: Sunnyside Cogeneration
 attn: Rusty Netz
 P.O. Box 10
 East Carbon, UT 84520

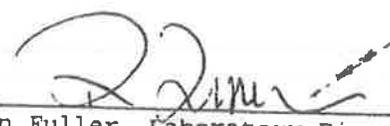
Date: 7/1/98

Group #: 23506
 Lab #: 98-U004750
 Project: UPDES
 Sample Desc: 015
 Sample Matrix: WATER
 Date Sampled: 6/17/98
 Date Submitted: 6/18/98

Time Sampled: 9:00
 Time Received: 9:20

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Cyanide (T), mg/L	< 0.002	0.002	6/22/98 11:00	ASTM D2036	EJB
Mercury (T), as Hg, mg/L	0.0002	0.0002	6/24/98 13:53	EPA 245.1	EG
Residual Chlorine, mg/L	< 0.1	0.1	6/23/98 15:30	EPA 330.5	LH
Total Dissolved Solids, mg/L	728	10	6/22/98 12:45	EPA 160.1	LPS
Total Suspended Solids, mg/L	22	1	6/19/98 15:15	EPA 160.2	LPS
Antimony (T), as Sb, mg/L	< 0.2	0.2	6/30/98 13:19	EPA 200.7	EG
Arsenic (T), as As, mg/L	< 0.1	0.1	6/30/98 13:19	EPA 200.7	EG
Beryllium (T), as Be, mg/L	< 0.001	0.001	6/30/98 13:19	EPA 200.7	EG
Cadmium (T), as Cd, mg/L	< 0.005	0.005	6/30/98 13:19	EPA 200.7	EG
Chromium (T), as Cr, mg/L	< 0.005	0.005	6/30/98 13:19	EPA 200.7	EG
Copper (T), as Cu, mg/L	< 0.01	0.01	6/30/98 13:19	EPA 200.7	EG
Lead (T), as Pb, mg/L	< 0.05	0.05	6/30/98 13:19	EPA 200.7	EG
Nickel (T), as Ni, mg/L	< 0.01	0.01	6/30/98 13:19	EPA 200.7	EG
Selenium (T), as Se, mg/L	< 0.1	0.1	6/30/98 13:19	EPA 200.7	EG
Silver (T), as Ag, mg/L	< 0.005	0.005	6/30/98 13:19	EPA 200.7	EG

Approved By: 
 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

(generic.rpt)

6100 SOUTH STRATTON
 SALT LAKE CITY, UT 84119
 801-280-7000 PHONE
 801-280-7000 FAX



Date: 7/ 1/98

To: Sunnyside Cogeneration
attn: Rusty Netz
P.O. Box 10
East Carbon, UT 84520

Group #: 23506
Lab #: 98-U004750
Project: UPDES
Sample Desc: 015
Sample Matrix: WATER
Date Sampled: 6/17/98
Date Submitted: 6/18/98

Time Sampled: 9:00
Time Received: 9:20

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MINIMUM REPORTING		METHOD	ANALYST
		LIMIT (MRL)	DATE ANALYZED		
INORGANIC PARAMETERS					
Thallium (T), as Tl, mg/L	< 0.2	0.2	6/30/98 13:19	EPA 200.7	EG
Zinc (T), as Zn, mg/L	0.10	0.01	6/30/98 13:19	EPA 200.7	EG
Oil & Grease, J	< 5	5	6/23/98 9:00	SM18 5520-B	KRF
Receiving Temperature, C	4.4		6/18/98 9:20		RCG

NOTE: Sample submitted on ice.

Approved By: _____

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 2

{generic.rpt}

8100 SOUTH STRATLER
RUSTY NETZ
6/18/98



To: Sunnyside Cogeneration
 attn: Rusty Netz
 P.O. Box 10
 East Carbon, UT 84520

Date: 7/ 1/98

Group #: 23506
 Lab #: 98-U004750
 Project: UPDES
 Sample Desc: 015
 Sample Matrix: WATER
 Date Sampled: 6/17/98
 Date Submitted: 6/18/98

Time Sampled: 9:00
 Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	METHOD
Volatiles			
Analyst: AC	Date Analyzed: 6/18/98	Time: 11:30	
Acrolein, ug/L	< 200	200	EPA 624
Acrylonitrile, ug/L	< 50	50	EPA 624
Benzene, ug/L	< 2	2	EPA 624
Bromoform, ug/L	< 5	5	EPA 624
Carbon Tetrachloride, ug/L	< 5	5	EPA 624
Chlorobenzene, ug/L	< 2	2	EPA 624
Chloroethane, ug/L	< 10	10	EPA 624
2-Chloroethyl Vinyl Ether, ug/L	< 20	20	EPA 624
Chloroform, ug/L	< 5	5	EPA 624
Dibromochloromethane, ug/L	< 5	5	EPA 624
1,2-Dichlorobenzene, ug/L	< 5	5	EPA 624
1,3-Dichlorobenzene, ug/L	< 5	5	EPA 624
1,4-Dichlorobenzene, ug/L	< 5	5	EPA 624
Dichlorobromomethane, ug/L	< 5	5	EPA 624

Approved By:


 Ron Fuller, Laboratory Director

MRL - Lowest level detectable



Date: 7/ 1/98

To: Sunnyside Cogeneration
attn: Rusty Netz
P.O. Box 10
East Carbon, UT 84520

Group #: 23506
Lab #: 98-U004750
Project: UPDES
Sample Desc: 015
Sample Matrix: WATER
Date Sampled: 6/17/98
Date Submitted: 6/18/98

Time Sampled: 9:00
Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT	
		(MRL)	METHOD
1,1-Dichloroethane, ug/L	< 5	5	EPA 624
1,2-Dichloroethane, ug/L	< 5	5	EPA 624
1,1-Dichloroethene, ug/L	< 5	5	EPA 624
trans-1,2-Dichloroethene, ug/L	< 5	5	EPA 624
1,2-Dichloropropane, ug/L	< 5	5	EPA 624
cis-1,3-Dichloropropene, ug/L	< 5	5	EPA 624
trans-1,3-Dichloropropene, ug/L	< 5	5	EPA 624
Ethylbenzene, ug/L	< 5	5	EPA 624
Methyl Bromide, ug/L	< 20	20	EPA 624
Methyl Chloride, ug/L	< 20	20	EPA 624
Methylene Chloride, ug/L	< 10	10	EPA 624
Nitrobenzene, ug/L	< 5	5	EPA 624
1,1,2,2-Tetrachloroethane, ug/L	< 5	5	EPA 624
Tetrachloroethene, ug/L	< 5	5	EPA 624
Toluene, ug/L	< 10	10	EPA 624
1,2,4-Trichlorobenzene, ug/L	< 5	5	EPA 624

Approved By: 

Ron Fuller, Laboratory Director

MRL - Lowest level detectable

Page 4

(generic.rpt)

6/18/98 10:00 AM
6/18/98 10:00 AM
6/18/98 10:00 AM



To: Sunnyside Cogeneration
 attn: Rusty Netz
 P.O. Box 10
 East Carbon, UT 84520

Date: 7/ 1/98

Group #: 23506
 Lab #: 98-U004750
 Project: UPDES
 Sample Desc: 015
 Sample Matrix: WATER
 Date Sampled: 6/17/98
 Date Submitted: 6/18/98

Time Sampled: 9:00
 Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	METHOD
1,1,1-Trichloroethane, ug/L	< 5	5	EPA 624
1,1,2-Trichloroethane, ug/L	< 5	5	EPA 624
Trichloroethene, ug/L	< 5	5	EPA 624
Vinyl Chloride, ug/L	< 5	5	EPA 624

Pesticides/PCBs

Analyst: AJP Date Analyzed: 6/23/98
 Extracted by: AJP Date Extracted: 6/23/98

Time: 17:54
 Extraction Method: 3510

Aldrin, ug/L	< 2	2	
Alpha-BHC, ug/L	< 0.05	0.05	EPA 608
Beta-BHC, ug/L	< 0.05	0.05	EPA 608
Delta-BHC, ug/L	< 0.05	0.05	EPA 608
Gamma-BHC, (Lindane), ug/L	< 0.05	0.05	EPA 608
Chlordane, ug/L	< 1	1	EPA 608
4,4'-DDD, ug/L	< 0.1	0.1	EPA 608
4,4'-DDE, ug/L	< 0.1	0.1	EPA 608

Approved By: 
 Ron Fuller, Laboratory Director

MRL = Lowest level detectable

(generic.rpt)

6100 SOUTH STRATLER
 SALT LAKE CITY, UT 84119
 801 487 7000 FAX 801 487 7001



Date: 7/ 1/98

To: Sunnyside Cogeneration
attn: Rusty Netz
P.O. Box 10
East Carbon, UT 84520

Group #: 23506
Lab #: 98-U004750
Project: UPDES
Sample Desc: 015
Sample Matrix: WATER
Date Sampled: 6/17/98
Date Submitted: 6/18/98

Time Sampled: 9:00
Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT	
		(MRL)	METHOD
4,4'-DDT, ug/L	< 0.1	0.1	EPA 608
Dieldrin, ug/L	< 0.1	0.1	EPA 608
Endosulfan I, ug/L	< 0.05	0.05	EPA 608
Endosulfan II, ug/L	< 0.1	0.1	EPA 608
Endosulfan Sulfate, ug/L	< 0.1	0.1	EPA 608
Endrin, ug/L	< 0.1	0.1	EPA 608
Endrin Aldehyde, ug/L	< 0.1	0.1	EPA 608
Heptachlor, ug/L	< 0.05	0.05	EPA 608
Heptachlor Epoxide, ug/L	< 0.05	0.05	EPA 608
Toxaphene, ug/L	< 1	1	EPA 608
Arochlor 1221, ug/L	< 1	1	EPA 608
Arochlor 1232, ug/L	< 1	1	EPA 608
Arochlor 1242/1016, ug/L	< 1	1	EPA 608
Arochlor 1248, ug/L	< 1	1	EPA 608
Arochlor 1254, ug/L	< 1	1	EPA 608
Arochlor 1260, ug/L	< 1	1	EPA 608

Approved By: _____

Ron Fuller, Laboratory Director

MRL - Lowest level detectable



To: Sunnyside Cogeneration
 attn: Rusty Netz
 P.O. Box 10
 East Carbon, UT 84520

Date: 7/1/98

Group #: 23506
 Lab #: 98-U004750
 Project: UPDES
 Sample Desc: 015
 Sample Matrix: WATER
 Date Sampled: 6/17/98
 Date Submitted: 6/18/98

Time Sampled: 9:00
 Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	METHOD
Semi-Volatiles			
Analyst: AC	Date Analyzed: 6/22/98	Time: 12:15	
Extracted by: AC	Date Extracted: 6/22/98	Extraction Method: 3510	
Acenaphthene, ug/L	< 5	5	EPA 625
Acenaphthylene, ug/L	< 5	5	EPA 625
Anthracene, ug/L	< 5	5	EPA 625
Benzidine, ug/L	< 50	50	EPA 625
Benzo(a)anthracene, ug/L	< 5	5	EPA 625
Benzo(a)pyrene, ug/L	< 5	5	EPA 625
Benzo(b)fluoranthene, ug/L	< 5	5	EPA 625
Benzo(k)fluoranthene, ug/L	< 5	5	EPA 625
Benzo(g,h,i)perylene, ug/L	< 5	5	EPA 625
bis(2-Chloroethyl)ether, ug/L	< 5	5	EPA 625
bis(2-Chloroethoxy)methane, ug/L	< 5	5	EPA 625

Approved By: 
 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

{generic.rpt}

8110 SOUTH STRATFORD
 SALT LAKE CITY, UT 84143
 801 538 7200 FAX 801 538 7201
 WWW.UDEQ.UTAH.GOV



Date: 7/ 1/98

To: Sunnyside Cogeneration
attn: Rusty Netz
P.O. Box 10
East Carbon, UT 84520

Group #: 23506
Lab #: 98-U004750
Project: UPDES
Sample Desc: 015
Sample Matrix: WATER
Date Sampled: 6/17/98
Date Submitted: 6/18/98

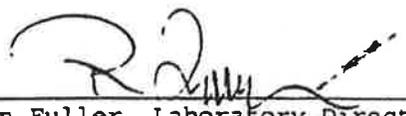
Time Sampled: 9:00
Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	METHOD
bis(2-Chloroisopropyl)ether, ug/L	< 5	5	EPA 625
bis(2-Ethylhexyl)phthalate, ug/L	< 50	50	EPA 625
4-Bromophenylphenyl ether, ug/L	< 5	5	EPA 625
Butylbenzyl phthalate, ug/L	< 50	50	EPA 625
4-Chloro-3-methylphenol, ug/L	< 5	5	EPA 625
2-Chloronaphthalene, ug/L	< 5	5	EPA 625
2-Chlorophenol, ug/L	< 5	5	EPA 625
4-Chlorophenylphenyl Ether, ug/L	< 5	5	EPA 625
Chrysene, ug/L	< 5	5	EPA 625
Di-n-butyl phthalate, ug/L	< 50	50	EPA 625
Di-n-octyl phthalate, ug/L	< 50	50	EPA 625
Dibenzo(a,h)anthracene, ug/L	< 5	5	EPA 625
3,3'-Dichlorobenzidine, ug/L	< 20	20	EPA 625
2,4-Dichlorophenol, ug/L	< 5	5	EPA 625
Diethyl phthalate, ug/L	< 50	50	EPA 625
2,4-Dimethylphenol, ug/L	< 5	5	EPA 625

Approved By:


Ron Fuller, Laboratory Director

MRL - Lowest level detectable

6100 SOUTH STREET
SALT LAKE CITY, UT 84119
TEL: 325-2200 FAX: 325-2201



To: Sunnyside Cogeneration
 attn: Rusty Netz
 P.O. Box 10
 East Carbon, UT 84520

Date: 7/1/98

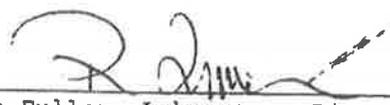
Group #: 23506
 Lab #: 98-U004750
 Project: UPDES
 Sample Desc: 015
 Sample Matrix: WATER
 Date Sampled: 6/17/98
 Date Submitted: 6/18/98

Time Sampled: 9:00
 Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	METHOD
Dimethyl phthalate, ug/L	< 50	50	EPA 625
4,6-Dinitro-2-methylphenol, ug/L	< 20	20	EPA 625
2,4-Dinitrophenol, ug/L	< 50	50	EPA 625
2,4-Dinitrotoluene, ug/L	< 5	5	EPA 625
2,6-Dinitrotoluene, ug/L	< 5	5	EPA 625
1,2-Diphenylhydrazine, ug/L	< 20	20	EPA 625
Fluoranthene, ug/L	< 5	5	EPA 625
Fluorene, ug/L	< 5	5	EPA 625
Hexachlorobenzene, ug/L	< 5	5	EPA 625
Hexachlorobutadiene, ug/L	< 5	5	EPA 625
Hexachlorocyclopentadiene, ug/L	< 5	5	EPA 625
Hexachloroethane, ug/L	< 20	20	EPA 625
Indeno(1,2,3-cd)pyrene, ug/L	< 5	5	EPA 625
Isophorone, ug/L	< 5	5	EPA 625
Naphthalene, ug/L	< 5	5	EPA 625
2-Nitrophenol, ug/L	< 5	5	EPA 625

Approved By: 
 Ron Fuller, Laboratory Director

MRL - Lowest level detectable

{generic.rpt}

6100 SOUTH STREET, SUITE 200, SALT LAKE CITY, UT 84119
 801-487-1000



Date: 7/1/98

To: Sunnyside Cogeneration
attn: Rusty Netz
P.O. Box 10
East Carbon, UT 84520

Group #: 23506
Lab #: 98-U004750
Project: UPDES
Sample Desc: 015
Sample Matrix: WATER
Date Sampled: 6/17/98
Date Submitted: 6/18/98

Time Sampled: 9:00
Time Received: 9:20

CERTIFICATE OF ANALYSIS

RECEIVING TEMPERATURE: 4.4 C

PARAMETER	RESULT	MINIMUM REPORTING LIMIT (MRL)	METHOD
4-Nitrophenol, ug/L	< 50	50	EPA 625
n-Nitrosodi-n-propylamine, ug/L	< 5	5	EPA 625
N-Nitrosodimethylamine, ug/L	< 20	20	EPA 625
N-Nitrosodiphenylamine, ug/L	< 5	5	EPA 625
Pentachlorophenol, ug/L	< 5	5	EPA 625
Phenanthrene, ug/L	< 5	5	EPA 625
Phenol, ug/L	< 5	5	EPA 625
Pyrene, ug/L	< 5	5	EPA 625
2,4,6-Trichlorophenol, ug/L	< 5	5	EPA 625

NOTE: Sample submitted on ice.

Approved By: _____

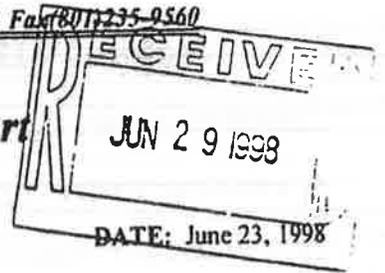
Ron Fuller, Laboratory Director

MRL - Lowest level detectable

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 08-11-2010 BY 60322 UCBAW

Attachment E

Acute Whole Effluent Toxicity Report Fathead Minnow



PERMITTEE NAME: Sunnyside Co-Gen NPDES NO: 015

OUTFALL NO:

TEST (Animal/Age): Fathead Minnow, 8 days.

SAMPLE (Date/Type): 6/17/98..

DATE/TIME TEST BEGAN: 6/18/98 5:00 p.m.

DATE/TIME TEST COMPLETED: 6/22/98 4:45 p.m. .

TEST CONDITIONS

Fathead Minnow larvae were exposed to diluted effluent as specified by the permit. At the end of the test period Survival was measured to determine if Acute Toxicity was present in the sample.

Animal Age at Test Start	Fathead Minnow, 8 days.
Number of Organisms/Dilution Volume/Replicates	10 organisms/150 mL/2 replicates
Food	Fed before starting test and at 48 hours, newly hatched brine shrimp.
Aeration	None required.
Dissolved Oxygen	Measured daily old/new.
Water Replacement	Renewed daily.
Temperature	20 ± 1 degrees C.
Photo Period	16 hours light 8 hours dark.
pH	Measured initially and at 24 hours.
Dilution Water	Reconstituted water (+15% hardness of the receiving water).
Receiving Water	None was supplied.
Sample Concentrations	Control, 6.25, 12.5, 25, 50, 100%.

SUMMARY

Results: X Pass Fail

There was NO significant effect on survival.

Enclosed are data sheets and statistical reports.

Sincerely,

Lee Rawlings

Water & Environmental Testing, Inc.

Enclosure

Region VIII Guidance for Acute Whole Effluent Reporting

PERMITTEE NAME: Sunnyside Co-Gen NPDES NO: 015

OUTFALL NO:

50% MORTALITY TEST: Pass Fail LC50: >100%.

TEST (Animal/Age): Fathead Minnow, 8 days.

SAMPLE (Date/Type): 6/17/98.

DATE/TIME TEST BEGAN: 6/18/98 5:00 p.m.

DATE/TIME TEST COMPLETED: 6/22/98 4:45 p.m.

Survival Totals

	Recon Water	Receiving Water	Dilutions (% Effluent)				
			6.25%	12.5%	25%	50%	100%
Initial	20	na	20	20	20	20	20
24 hrs	20	na	20	20	20	20	20
48 hrs	20	na	20	20	20	20	20
72 hrs	20	na	20	19	20	20	19
96 hrs	20	na	20	19	20	20	19

Max/Min Values

	Recon Water	Receiving Water	Dilutions (% Effluent)				
			6.25%	12.5%	25%	50%	100%
Dissolved Oxygen	7.3/6.1	na	7.6/5.4	7.8/4.7	7.7/5.1	7.9/4.9	8.6/5.4
Temperature (°C)	21.0/20.0	na	21.0/20.0	21.0/20.0	21.0/20.2	21.0/20.4	21.0/20.4

Receiving Water used for Dilution? (Y of N) N

Hardness, mg/L CaCO₃: Receiving Water na Recon Water 412 Effluent 292

Initial Total Residual Chlorine, mg/L Cl₂ 100% Effluent: <0.05

Reconstituted pH: Initial 8.35 After 24 hours 8.25

Receiving Water pH: Initial na After 24 hours na

pH in 100% Effluent: Initial 8.79 After 24 hours 7.69

Ammonia as N, mg/L: 100% Effluent 0.06 Receiving Water na Recon <0.05

Conductivity, umhos/cm: 100% Effluent 982 Receiving Water na

Alkalinity, mg/L CaCO₃: 100% Effluent 41 Receiving Water na

Analyst: Lee Rawlings Laboratory: Water & Environmental Testing, Inc.

Signature: Lee Rawlings

Date: 6/22/98

Comments: _____

Acute Whole Effluent Toxicity Report Ceriodaphnia

DATE: June 23, 1998

PERMITTEE NAME: Sunnyside Co-Gen NPDES NO: 015

OUTFALL NO:

TEST (Animal/Age): Ceriodaphnia <24 hours.

SAMPLE (Date/Type): 6/17/98.

DATE/TIME TEST BEGAN: 6/18/98 5:00 p.m.

DATE/TIME TEST COMPLETED: 6/20/98 4:30 p.m.

TEST CONDITIONS

Ceriodaphnia dubia neonates were exposed to diluted Effluent as specified by the permit. At the end of the test period Survival was measured to determine if Acute Toxicity was present in the sample.

Animal Age at Test Start	<24 hours.
Number of Organisms/Dilution Volume/Replicates	5 organisms/15 mL/4 replicates.
Food	Fed YTC and Algae before starting test.
Aeration	None required.
Dissolved Oxygen	Measured daily old/new.
Water Replacement	Renewed daily.
Temperature	20 ± 1 degrees C.
Photo Period	16 hours light 8 hours dark.
pH	Measured initially and at 24 hours.
Dilution Water	Reconstituted water (±15% hardness of the receiving water).
Receiving Water	None was supplied.
Sample Concentrations	Control, 6.25, 12.5, 25, 50, 100%.

SUMMARY

Results: X Pass Fail

There was NO significant effect on survival.

Enclosed are data sheets and statistical reports.

Sincerely,


Lee Rawlings
Water & Environmental Testing, Inc.

Enclosure

Region VIII Guidance for Acute Whole Effluent Reporting

PERMITTEE NAME: Sunnyside Co-Gen NPDES NO: 015

OUTFALL NO:

50% MORTALITY TEST: X Pass Fail LC50: >100%.

TEST (Animal/Age): Ceriodaphnia <24 hours.

SAMPLE (Date/Type): 6/17/98.

DATE/TIME TEST BEGAN: 6/18/98 5:00 p.m.

DATE/TIME TEST COMPLETED: 6/20/98 4:30 p.m.

Survival Totals

	Recon Water	Receiving Water	Dilutions (% Effluent)				
			6.25%	12.5%	25%	50%	100%
Initial	20	na	20	20	20	20	20
24 hrs	20	na	20	20	20	20	20
48 hrs	20	na	20	20	20	20	20

Max/Min Values

	Recon Water	Receiving Water	Dilutions (% Effluent)				
			6.25%	12.5%	25%	50%	100%
Dissolved Oxygen	7.3/6.8	na	7.2/6.9	7.3/6.9	7.4/7.0	7.6/7.0	8.0/7.1
Temperature (°C)	21.0/20.0	na	21.0/20.0	21.0/20.0	21.0/20.2	21.0/20.2	21.0/20.2

Receiving Water used for Dilution? (Y of N) N

Hardness, mg/L CaCO₃: Receiving Water na Recon Water 412 Effluent 292

Initial Total Residual Chlorine, mg/L Cl₂ 100% Effluent: <0.05

Reconstituted pH: Initial 8.35 After 24 hours 8.53

Receiving Water pH: Initial na After 24 hours na

pH in 100% Effluent: Initial 8.79 After 24 hours 7.91

Ammonia as N, mg/L: 100% Effluent Initial 0.06 Receiving Water na Recon Initial <0.05

Conductivity, umhos/cm: 100% Effluent 982 Receiving Water na

Alkalinity, mg/L CaCO₃: 100% Effluent 41 Receiving Water na

Analyst: Lee Rawlings Laboratory: Water & Environmental Testing, Inc.

Signature: Lee Rawlings

Date: 6/22/98

Comments: _____

W.E.T. Inc.

Water & Environmental Testing Inc. 399 West 1200 North, B Orem, Utah 84057 (801)235-7941 Fax(801)235-9560

Acute Whole Effluent Toxicity Chemical Result Report

June 23, 1998

CUSTOMER NAME:

Sunnyside Co-Gen
Attn: Rusty Netz
#1 Power Plant Road
Sunnyside, Utah 84539

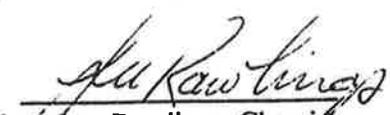
PHONE NUMBER: (801)888-4476

FAX NUMBER: (801)888-2538

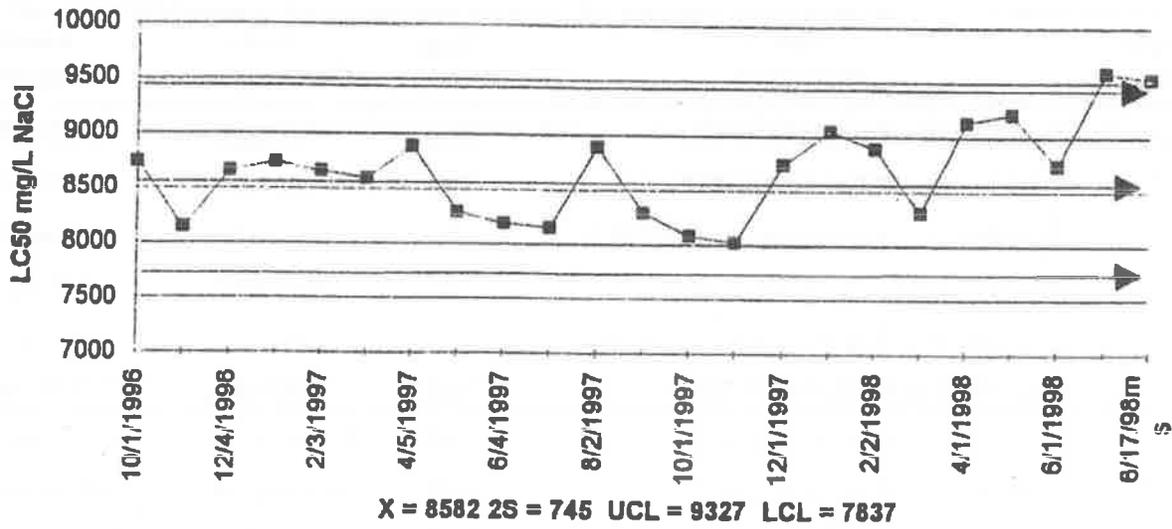
SAMPLE DESCRIPTION:

Chemistries to go with Acute 2 Species Toxicity Test Collected 6/17/98.

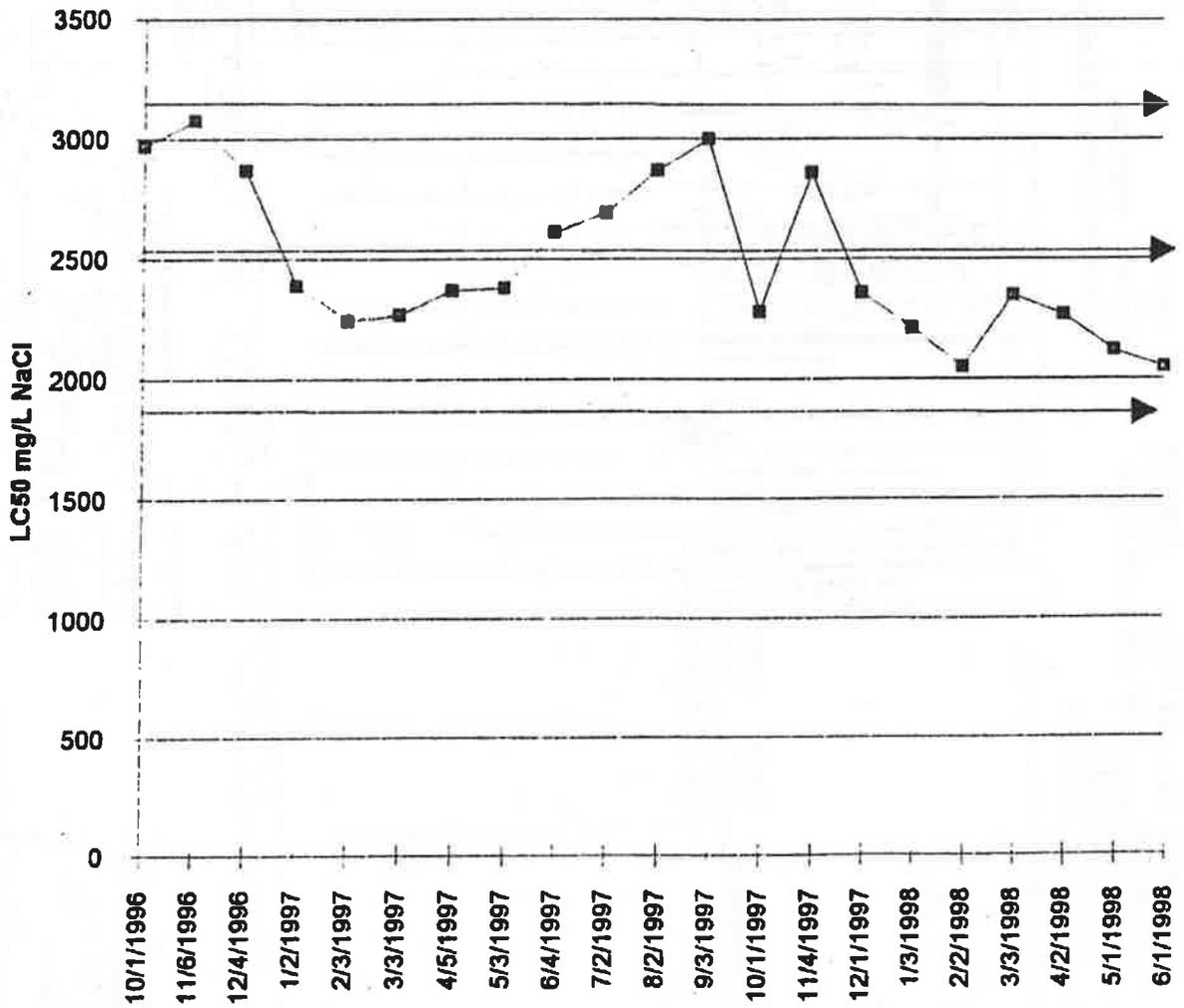
Sample Source	Test Performed	Log Number	Acute Ceriodaphnia	Acute Minnow
Effluent	Total Hardness, Recon (EPA 130.2)	2163	412 mg/L	412 mg/L
	Total Hardness, Effluent (EPA 130.2)	2163	292 mg/L	292 mg/L
	Total Hardness, Receiving Water (EPA 130.2)	Na	na mg/L	na mg/L
	Ammonia, Effluent (EPA 350.2/350.3)	2163	0.06 mg/L	0.06 mg/L
	Ammonia, Receiving Water (EPA 350.2/350.3)	Na	na mg/L	na mg/L
	Initial Chlorine Residual (EPA 330.5)	2163	<0.05 mg/L	<0.05 mg/L
	Final Chlorine Residual (EPA 330.5)	2163	na mg/L	na mg/L
	Conductivity, Effluent (EPA 120.1)	2163	982 umhos/cm	982 umhos/cm
	Alkalinity, Effluent (EPA 310.1)	2163	41 mg/L CaCO ₃	41 mg/L CaCO ₃
	Conductivity, Receiving Water (EPA 120.1)	Na	na umhos/cm	na umhos/cm
	Alkalinity, Receiving Water (EPA 310.1)	Na	na mg/L CaCO ₃	na mg/L CaCO ₃
	Recon Initial pH (EPA 150.1)	2163	8.35	8.35
	After 24 hours pH (EPA 150.1)	2163	8.53	8.25
	100% Initial pH (EPA 150.1)	2163	8.79	8.79
	100% After 24 hours pH (EPA 150.1)	2163	7.91	7.69
	Receiving Water Initial pH (EPA 150.1)	Na	na	na
	Receiving Water After 24 hours pH (EPA 150.1)	Na	na	na


Analyst: Lee Rawlings, Chemist
Water & Environmental Testing, Inc.

Acute Reference Toxicant Fathead Minnow June 1998



Acute Reference Toxicant Ceriodaphnia June 1998



X = 2512 σ = 648 UCL 3160 LCL 1864

Attachment A

NAME: **COLE COGENERATION ASSOC.**
 ADDRESS: **P.O. BOX 10**
EAST CARBON
 UT 84520

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)
 UT 00247
 PERMIT NUMBER

SED POND DISCH /
 P - FINAL
 MIMCR
 EFFLUE

Form Approved
 QMB 1940-0004
 Appro Expires 05-31-98
 12345

FACILITY: **PLANT MANAGER**
 LOCATION: **PLANT MANAGER**
 TITLE: **PLANT MANAGER**

MONITORING PERIOD
 FROM: YEAR 98 MO 01 TO YEAR 98 MO 30
 QUANTITY OR CONCENTRATION (46-53) QUANTITY OR CONCENTRATION (54-61)
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

PARAMETER (32-37)	QUANTITY OR LOADING (46-53)		QUANTITY OR CONCENTRATION (54-61)		UNITS	MAXIMUM	AVERAGE	MINIMUM	UNITS	NO. EX (62-67)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
	AVERAGE	REPORT	MAXIMUM	AVERAGE								
00056 1 0 0 EFFLUENT GROSS VALUE NITROGEN, DISSOLVED (DO)	11,520	REPORT DAILY	11,520	11,520	MG/L	11,520	11,520	6.7	(19)	ONCE/MONTH	MPASRL	
00000 1 0 0 EFFLUENT GROSS VALUE SOLIDS, TOTAL SUSPENDED	8.03	REPORT DAILY	8.03	8.03	MG/L	8.03	8.03	8.03	(12)	ONCE/MONTH	MPASRL	
00030 1 0 0 EFFLUENT GROSS VALUE OIL AND GREASE	25	REPORT DAILY	25	25	MG/L	25	25	25	(19)	ONCE/MONTH	MPASRL	
00050 1 0 0 EFFLUENT GROSS VALUE CHROMIUM, TOTAL (AS CR)	<0.005	REPORT DAILY	<0.005	<0.005	MG/L	<0.005	<0.005	<0.005	(19)	ONCE/MONTH	MPASRL	
01034 1 0 0 EFFLUENT GROSS VALUE ZINC (AS ZN)	0.03	REPORT DAILY	0.03	0.03	MG/L	0.03	0.03	0.03	(19)	ONCE/MONTH	MPASRL	
01092 1 0 0 EFFLUENT GROSS VALUE	0.10	REPORT DAILY	0.10	0.10	MG/L	0.10	0.10	0.10	(19)	ONCE/MONTH	MPASRL	

NAME/TITLE: **PRINCIPAL EXECUTIVE OFFICER**
HAROLD C. SALLAS
GENERAL MANAGER
 TYPED OR PRINTED
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER: *Harold C. Sallas*
 OFFICER OR AUTHORIZED AGENT
 TELEPHONE: 435 888-4477
 AREA CODE: 98
 NUMBER: 7
 DATE: 7 21

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1316. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of 6 months and 5 years.)

NAME: **COAL COGENERATION ASSOC.**
 ADDRESS: **P.O. BOX 10**
EAST CARBON UT 84520

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (17-19)

UT00247-1
 PERMIT NUMBER

015 A
 DISCHARGE NUMBER

Form Approved.
 GMB / D40-0004
 Expires 05-31-98

SED POND DISCH /
 APPROVED 12345

FACILITY: **MINOR EFFLUENT**
 LOCATION: **SED POND DISCH**

FORM: **PLANT MANAGER**

MONITORING PERIOD
 FROM: YEAR 98 MO 05 DAY 01 TO YEAR 98 MO 06 DAY 30

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	(3 Card Only) QUANTITY OR LOADING (54-57)			(4 Card Only) QUANTITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-57)	UNITS (58-61)	AVERAGE (54-57)	MAXIMUM (54-61)	UNITS (58-61)			
SOLIDS, TOTAL INDIVIDUAL	*****	*****	*****	*****	50.1	(19)		ONCE / MONTH	GRAB
PERMIT REQUIREMENT	*****	*****	*****	*****	0.2 DAILY MAX	(19)			
SOLIDS, TOTAL SOLUBLE	*****	*****	*****	*****	728	(19)		ONCE / MONTH	GRAB
PERMIT REQUIREMENT	*****	*****	*****	*****	1650 DAILY MAX	(19)			
SAMPLE MEASUREMENT									
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PERMIT REQUIREMENT									

NAME/TITLE: **HAROLD C. SALLAS GENERAL MANAGER**

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: *Harold C. Sallas*

TELEPHONE: _____ DATE: _____

ADDRESS: **437 888-4476** YEAR: **98** MO: **7** DAY: **21**

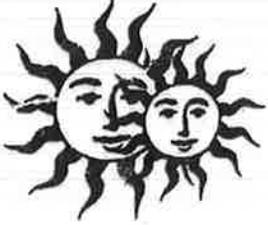
TYPED OR PRINTED: _____

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Attachment B

Attachment C

COPY



Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

October 22, 2002

Department of Environmental Quality
Division of Water Quality
288 North 1460 West
P. O. Box 144870
Salt Lake City, Utah 84114-4870

Att: Mr. Michael Herkimer

Subject: September 2002, Monitoring Period
Sunnyside Cogeneration Facility
UPDES Permit No. UT0024759

Dear Mike:

This letter summarizes the UPDES-permit field activities at the Sunnyside Cogeneration Facility during September 2002. Rusty Netz, the Plant Engineer for the facility, has physically inspected the permit outfalls in accordance with the UPDES permit guidelines.

On September 9, 2002, SCA experienced discharges from outfalls 009, 007, 015, and 017 during a storm water event. The September 2002, storm water event was, according to the Utah State Climatologist at the Utah Climate Center, greater than the 10-year 24-hour precipitation event. The Sunnyside area received 2.55 inches of rain in a 24-hour period on September 7th through September 8th. The 10-year 24-hour precipitation event for the Sunnyside area, according to the State Climatologist, is precipitation greater than 1.90 inches of rain in a 24-hour period.

The discharges at outfalls 007 and 009, were sampled for the required parameters under permit conditions Part I.D.1, I.D.3, and I.D.4. No other discharges occurred from outfalls 007 and 009 during the September monitoring period.

The discharges at outfalls 015 and 017, were sampled for the required parameters under permit condition Part I.D.8. The pH analytical results for outfall 017, from Commercial Testing Laboratories, was 9.45 standard units. However, the field test result, which was taken during the discharge, was 8.46 standard units. No other discharges occurred from outfalls 015 and 017 during the September monitoring period.

Mike Herkimer
October 22, 2002
Page Two

Included are the DMR reports for September for all UPDES outfalls and the analytical reports from samples taken from 007, 009, 015, and 017.

If you have any questions or comments, please contact Rusty Netz at (435)888-4476.

Sincerely,

Agent For
Sunnyside Cogeneration Associates



Randy J. Scott
Plant Manager

Enclosure

cc. Rusty Netz, COSI
Plant File

ATTACHMENT

"A"



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-853-9300 FAX: 630-953-9306



Member of the SGS Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

September 24, 2002

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:015

Kind of sample Water
reported to us

RECEIVED 1000
SAMPLED 1000
FIELD MEASUREMENTS

Sample taken at Sunnyside Cogeneration

Sample taken by RUSTY NET

NOTES:

Date sampled September 9, 2002

FILTERED @ LAB

Date received September 10, 2002

SAMPLE EXPIRED FOR PH WHEN RECIEVED

Analysis report no. 59-24421

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time	Analyst
Chromium, Total	<0.1	0.1	mg/l	EPA 218.1	09-18-2002 1010	MK
Oil & Grease	<2	2	mg/l	EPA 413.1	09-10-2002 0900	DI
pH	8.05		pH units	EPA 150.1	09-17-2002 0900	SC
Solids, Total Dissolved	416	10	mg/l	EPA 160.1	09-11-2002 0800	DI
Solids, Total Suspended	20	5	mg/l	EPA 160.2	09-11-2002 0800	DI
Zinc, Total	0.03	0.01	mg/l	EPA 289.1	09-17-2002 1414	MK

FAKED

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

MEMBER
ACIL

ER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

Marked For Your Protection

TERMS AND CONDITIONS ON REVERSE



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 630-953-9300 FAX: 630-953-9306



Member of the SGS Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1020
HUNTINGTON, UT 84528
TEL: (435) 653-2311
FAX: (435) 653-2436

September 24, 2002

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:017

Kind of sample Water
reported to us

RECEIVED 1300
SAMPLED 1000
FIELD MEASUREMENTS

Sample taken at Sunnyside Cogeneration

Sample taken by R. Net

Date sampled September 10, 2002

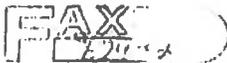
Date received September 10, 2002

NOTES:

Page 1 of 1

Analysis report no. 59-24445

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time/Analyst		
Chromium, Total	<0.1	0.1	mg/l	EPA 218.1	09-18-2002	1010	MK
Oil & Grease	<2	2	mg/l	EPA 413.1	09-18-2002	0800	DI
pH	9.45		pH units	EPA 150.1	09-17-2002	0900	SC
Solids, Total Dissolved	1112	10	mg/l	EPA 160.1	09-16-2002	0830	DI
Solids, Total Suspended	38	5	mg/l	EPA 160.2	09-16-2002	0830	DI
Zinc, Total	0.02	0.01	mg/l	EPA 289.1	09-17-2002	1414	MK



Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory



ER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

Watermarked For Your Protection

TERMS AND CONDITIONS ON REVERSE

ATTACHMENT
"B"

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NATIONAL POLYMER/ANTIDISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

APPROVED BY: [Signature]
 PERMIT NUMBER: [Number]
 DISCHARGE NUMBER: [Number]

Form Approved.
 OMB No. 2040-0004

FACILITY NAME/ADDRESS (Include Facility Name/Location if Different)
 QUANTASIDE COOPERATION ASSOC.
 LOCATION: 01 04520
 FROM: 02 09 01 TO: 02 09 30

OPERATOR: [Name]
 PIANT MANAGER: [Name]

MONITORING PERIOD
 YEAR MO DAY TO YEAR MO DAY

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX ANALYSIS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SOLIDS, TOTAL	SAMPLE MEASUREMENT REQUIREMENT									
AMBIENT CROSS VALUE	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT REQUIREMENT									
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NAME: SOUTHWEST CORPORATION 45500
 ADDRESS: P.O. BOX 10
 LAUREL, MISSISSIPPI 39062

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

Form Approved
 OMB No. 2040-0004

FACILITY: SOUTHWEST CORPORATION 45500
 LOCATION: 45500 SOUTHWEST PLANT WAREHOUSE

PERMIT NUMBER: 02-09-22
 MONITORING PERIOD: FROM 02-09-22 TO 02-09-22

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
00001 0 0 0	PERMIT REQUIREMENT			(07)							
00002 0 0 0	PERMIT REQUIREMENT										
00003 0 0 0	PERMIT REQUIREMENT										
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00100 0 0 0	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Randy Scott
 Plant Mgr.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 Randy Scott

TELEPHONE: 435-888-4176
 DATE: 02-10-22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME: SOUTHWEST COOPERATION ASSOC.
 ADDRESS: P.O. BOX 16
 EAST CARBON WY 82420

FACILITY SUBMISSED CONCENTRATION ASSOC.
 LOCATION: EAST CARBON WY 82420

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER: 435788-4476
 DISCHARGE NUMBER: 02 02 02

MONITORING PERIOD
 FROM: 02 02 02 TO: 02 02 02

NOTE: Read instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SAMPLE MEASUREMENT		435788	1650	(25)	435788	435788	1650		ONCE / YEAR	PRAB
PERMIT REQUIREMENT										
SAMPLE MEASUREMENT										
PERMIT REQUIREMENT										
SAMPLE MEASUREMENT										
PERMIT REQUIREMENT										
SAMPLE MEASUREMENT										
PERMIT REQUIREMENT										
SAMPLE MEASUREMENT										
PERMIT REQUIREMENT										
SAMPLE MEASUREMENT										
PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Randy Scott
 Plant Manager

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 Randy Scott

TELEPHONE: 435788-4476
 DATE: 02 10 02

COPY



Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

November 23, 2004

Kari Lundeen
Division of Water Quality
288 North 1460 West
Salt Lake City, Utah 84114

RE: October 2004, Monitoring Period
UPDES Permit No. UT0024759
Discharge Monitoring Report Forms
Sunnyside Cogeneration Facility (SCA)

Dear Kari:

This letter summarizes the UPDES-permit field activities at the Sunnyside Cogeneration Facility during October 2004. Rusty Netz, the Plant Engineer for the facility, has physically inspected the permit outfalls in accordance with the UPDES permit guidelines.

On October 22, 2004, Ponds 009, 012 and 017, at the Sunnyside Facility, discharged due to continuing precipitation events. The discharge was the result of several consecutive days measuring one inch or more of rainfall. The discharges were sampled for parameters in accordance with Sections I.D.1. and I.D.6 of SCA's UPDES Permit.

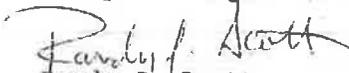
The sampling results for ponds 009 and 012, pertaining to Iron, were above the permit protection level. Both ponds discharged for less than a 24-hour period and were the only discharges since September 2002. SCA believes that the higher Iron could have resulted from Iron scale within the discharge piping.

Again, the discharge event only lasted for a 24-hour period, and no discharge has occurred since. Attached are the discharge sampling results and the discharge monitoring reports. Also, included are the 126-priority pollutant sampling results for pond 017, which is a sampling requirement for this particular pond.

If you have any questions or comments, please contact me or Rusty Netz at (801) 888-4476.

Sincerely,

Agent For
Sunnyside Cogeneration Associates


Randy J. Scott
Plant Manager

cc. Rusty Netz, SCA
Plant File



November 3, 2004

Sunnyside Cogeneration Assoc.
P.O. Box 10
East Carbon Utah 84520

Sample identification by
Sunnyside Cogeneration Assoc.

ID:017-SCA

Kind of sample Water
reported to us

RECEIVED 1700
SAMPLED

Sample taken at Sunnyside Cogeneration

FIELD MEASUREMENTS
FLOW 10 pH 7.98

Sample taken by Rusty Netz

Date sampled October 22, 2004

NOTES:

Date received October 22, 2004

Page 1 of 1

Analysis report no. 59-26995

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time	Analyst	
Chromium, Total	0.011	0.001	mg/l	EPA 200.7	11-02-2004	0825	BLP
Oil & Grease	<2	2	mg/l	EPA 413.1	10-28-2004	0805	BW
Solids, Total Dissolved	447	30	mg/l	EPA 160.1	10-26-2004	0840	BW
Solids, Total Suspended	52	5	mg/l	EPA 160.2	10-26-2004	0840	BW
Zinc, Total	0.046	0.004	mg/l	EPA 200.7	11-02-2004	0825	BLP



Respectfully submitted,
SGS NORTH AMERICA INC

Huntington Laboratory

Minerals Services Division
P.O. Box 1020, Huntington, UT 84528 t (435) 653-2311 f (435) 653-2436 www.sgs.com

Member of the SGS Group



ORGANIC ANALYSIS REPORT

Client: Utility Testing Laboratory

Contact: Drew Spencer

Collected: October 27, 2004

Analyzed: November 5, 2004

Received: November 2, 2004

Extracted: November 2, 2004

Analysis Requested: 608

AMERICAN
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ANALYTICAL
LABORATORIES

Lab Sample ID: L62951-01A

Field Sample ID: 017-SCA/

Site ID: 110104-01

Priority Poll. Organochlorine Pest/PCBs by 608

Analytical Results

Units = µg/L

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
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E-mail: awal@awal-Labs.com

Kyle E. Gross
Laboratory Director

Peggy McNicol
QA Officer

Compound

Surr: Decachlorobiphenyl
Surr: Tetrachloro-m-xylene

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (lindane)

Chlordane

4,4'-DDE

4,4'-DDE

4,4'-DDT

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

Heptachlor

Heptachlor epoxide

Toxaphene

Aroclor 1016/1242

Aroclor 1221

Aroclor 1232

Aroclor 1248

Aroclor 1254

Aroclor 1260

Reporting Limit

41-118

22-107

0.10

0.10

0.10

0.10

0.10

0.10

0.25

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.10

0.25

0.50

0.60

0.50

0.50

0.50

0.50

0.50

Analytical Result

80.4 %

94.1 %

< 0.10

< 0.10

< 0.10

< 0.10

< 0.10

< 0.10

< 0.25

< 0.10

< 0.25

< 0.50

< 0.60

< 0.50

< 0.50

< 0.50

< 0.50

Released by:

[Signature]
Laboratory Supervisor

Report Date:

November 16, 2004

Page 1 of 1

If analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAP protocols, Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or a member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only if the addressee has given its written consent to such use and reproduction in the absence of such consent no such use and reproduction shall be permitted.

1615 W. 2200 S. Suite A
Salt Lake City, Utah 84119

Utility Testing Laboratory

Phone (801) 485-8941

Fax (801) 467-0085

www.ut-labs.com

Analytical Report

Client: SGS Mineral Services
P.O. Box 1020
Huntington, UT. 84528

Project: SGS

Client Field ID: 26985-017-SCA
Laboratory ID: 102804-01

Attr: Coco VandenBergh

Analysis: Volatile Organic Compounds
(VOC)

Date Received: 22-Oct-04
Date Collected: 22-Oct-04
Collection Time: 15:45

Matrix: Water
Sample Received By: Sabrina Woolsey

Parameter	Date Analyzed	Method	Reporting Limit (mg/L)	Test Results (mg/L)
Dichlorodifluoromethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Chloromethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Vinyl Chloride	10/27/2004	Volatiles by 824	0.002	< 0.002
Bromomethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Chloroethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Trichlorofluoromethane	10/27/2004	Volatiles by 824	0.002	< 0.002
1,1-Dichloroethylene	10/27/2004	Volatiles by 824	0.002	< 0.002
Methylene chloride	10/27/2004	Volatiles by 824	0.002	< 0.002
trans-1,2-Dichloroethylene	10/27/2004	Volatiles by 824	0.002	< 0.002
1,1-Dichloroethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Chloroform	10/27/2004	Volatiles by 824	0.002	< 0.002
1,1,1-Trichloroethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Carbon Tetrachloride	10/27/2004	Volatiles by 824	0.002	< 0.002
1,2-Dichloroethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Benzene	10/27/2004	Volatiles by 824	0.002	< 0.002
Trichloroethylene	10/27/2004	Volatiles by 824	0.002	< 0.002
1,2-Dichloropropane	10/27/2004	Volatiles by 824	0.002	< 0.002
Bromodichloromethane	10/27/2004	Volatiles by 824	0.002	< 0.002
cis-1,3-Dichloropropylene	10/27/2004	Volatiles by 824	0.002	< 0.002
Toluene	10/27/2004	Volatiles by 824	0.002	< 0.002
trans-1,3-Dichloropropylene	10/27/2004	Volatiles by 824	0.002	< 0.002
1,1,2-Trichloroethane	10/27/2004	Volatiles by 824	0.002	< 0.002
Dibromochloromethane	10/27/2004	Volatiles by 824	0.002	< 0.002

Salt Lake City, Utah 84119


Utility Testing Laboratory

Phone (801) 485-8941

Fax (801) 467-0069

www.ut-labs.com

Analytical Report

Client: SGS Mineral Services
P.O. Box 1020
Huntington, UT, 84528

Attn: Coco VandenBergh

Project: SGS

Client Field ID: 26995-017-SCA
Laboratory ID: 102604-01

Analysis: Volatile Organic Compounds (VOC)

Matrix: Water
Sample Received By: Sabrina Woolsey

Date Received: 22-Oct-04
Date Collected: 22-Oct-04
Collection Time: 15:45

Parameter	Date Analyzed	Method	Reporting Limit (mg/L)	Test Results (mg/L)
Chlorobenzene	10/27/2004	Volatiles by 824	0.002	< 0.002
Ethylbenzene	10/27/2004	Volatiles by 824	0.002	< 0.002
Bromoforn	10/27/2004	Volatiles by 824	0.002	< 0.002
1,1,2,2-Tetrachloroethane	10/27/2004	Volatiles by 824	0.002	< 0.002
2-chloroethylvinyl ether	10/27/2004	Volatiles by 824	0.002	< 0.002
Acrolein	10/27/2004	Volatiles by 824	0.002	< 0.002
Acrylonitrile	10/27/2004	Volatiles by 824	0.002	< 0.002
Bis (chloromethyl) ether	10/27/2004	Volatiles by 824	0.002	< 0.002

Dilution Factor Used: 1

Approved by: 
Drew Spencer, Laboratory Director

Date of Issue:

All analyses performed in compliance with National Environmental Laboratory Accreditation Conference (NELAP) standards.

Page 2 of 2



AMERICAN
WEST
ANALYTICAL
LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
mail: awal@awal-Labs.com

Kyle P. Gross
Laboratory Director

Peggy McNicol
QA Officer

ORGANIC ANALYSIS REPORT

Client: Utility Testing Laboratory

Contact: Drew Spencer

Collected: October 22, 2004

Received: October 27, 2004

Analysis Requested: Semi Volatiles by 625

Lab Sample ID: L62851-01A

Field Sample ID: 26995-017-SCA

Site ID: 10-26-04-01

Analyzed: November 4, 2004

Extracted: October 28, 2004

Analytical Results

Priority Pollutant SVOAs by 625

Units = µg/L

Compound	Reporting Limit	Analytical Result
Surr: 2,4,6-Tribromophenol	25-139	73.1 %
Surr: 2-Fluorobiphenyl	10-92	51.5 %
Surr: 2-Fluorophenol	10-64	43.7 %
Surr: 4-Terphenyl-d14	10-144	75.0 %
Surr: Nitrobenzene-d5	12-101	73.9 %
Surr: Phenol-d6	10-50	28.4 %
Acenaphthene	5.4	< 5.4
Acenaphthylene	5.4	< 5.4
Anthracene	5.4	< 5.4
Benzidine	27	< 27
Benz(a)anthracene	5.4	< 5.4
Benzo(a)pyrene	5.4	< 5.4
Benzo(b)fluoranthene	11	< 11
Benzo(g,h,i)perylene	5.4	< 5.4
Benzo(k)fluoranthene	5.4	< 5.4
Bis(2-chloroethoxy)methane	5.4	< 5.4
Bis(2-chloroethyl)ether	11	< 11
Bis(2-chloroisopropyl)ether	5.4	< 5.4
Bis(2-ethylhexyl)phthalate	5.4	< 5.4
4-Bromophenyl phenyl ether	5.4	< 5.4
Butyl benzyl phthalate	5.4	< 5.4
2-Chloronaphthalene	5.4	< 5.4
4-Chlorophenyl phenyl ether	5.4	< 5.4
Chrysene	5.4	< 5.4
Dibenz(a,h)anthracene	5.4	< 5.4
1,2-Dichlorobenzene	5.4	< 5.4

Report Date: November 9, 2004

Page 1 of 3



Lab Sample ID: L62851-01A
 Field Sample ID: 26996-017-SCA
 Site ID: 10-26-04-01

Analyzed: November 4, 2004

Extracted: October 28, 2004

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 LABORATORIES

Analytical Results

Priority Pollutant SVOAs by 625

Units = µg/L

Compound	Reporting Limit	Analytical Result
1,3-Dichlorobenzene	5.4	< 5.4
1,4-Dichlorobenzene	5.4	< 5.4
3,3'-Dichlorobenzidine	5.4	< 5.4
Diethyl phthalate	5.4	< 5.4
Dimethyl phthalate	5.4	< 5.4
Di-n-butyl phthalate	5.4	< 5.4
2,4-Dinitrotoluene	5.4	< 5.4
2,6-Dinitrotoluene	5.4	< 5.4
Di-n-octyl phthalate	5.4	< 5.4
Azobenzene	11	< 11
Fluoranthene	5.4	< 5.4
Fluorene	5.4	< 5.4
Hexachlorobenzene	5.4	< 5.4
Hexachlorobutadiene	5.4	< 5.4
Hexachlorocyclopentadiene	5.4	< 5.4
Hexachloroethane	5.4	< 5.4
Indeno(1,2,3-cd)pyrene	5.4	< 5.4
Isophorone	5.4	< 5.4
Naphthalene	5.4	< 5.4
Nitrobenzene	5.4	< 5.4
N-Nitrosodimethylamine	11	< 11
N-Nitrosodi-n-propylamine	5.4	< 5.4
N-Nitrosodiphenylamine	5.4	< 5.4
Phenanthrene	5.4	< 5.4
Pyrene	5.4	< 5.4
1,2,4-Trichlorobenzene	5.4	< 5.4
2-Chlorophenol	5.4	< 5.4
2,4-Dichlorophenol	5.4	< 5.4
2,4-Dimethylphenol	5.4	< 5.4
4,6-Dinitro-2-methylphenol	5.4	< 5.4
2,4-Dinitrophenol	5.4	< 5.4
2-Nitrophenol	5.4	< 5.4

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Kyle F. Gross
 Laboratory Director

Peggy McNicol
 QA Officer

Report Date: November 9, 2004

Page 2 of 3

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAP protocols. Pertinent sampling information is located on the attached Chain-of-Guaranty. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of its analytical services.



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e-mail: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Lab Sample ID: L62851-01A
Field Sample ID: 26995-017-SCA
Site ID: 10-26-04-01

Analyzed: November 4, 2004

Extracted: October 28, 2004

Analytical Results

Priority Pollutant SVOAs by 625

Units = µg/L

<u>Compound</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>
4-Nitrophenol	5.4	< 5.4
4-Chloro-3-methylphenol	5.4	< 5.4
Pentachlorophenol	5.4	< 5.4
Phenol	5.4	< 5.4
2,4,6-Trichlorophenol	5.4	< 5.4

The reporting limits were raised ~1.08x due to limited sample volume.

Released by:

Laboratory Supervisor

Report Date:

November 9, 2004

Page 8 of 3

PERMIT NUMBER
147

DISCHARGE NUMBER
217

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
FROM 04 10 01 TO 04 10 01

PERMIT NUMBER
147

DISCHARGE NUMBER
217

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
FROM 04 10 01 TO 04 10 01

PERMIT NUMBER
147

DISCHARGE NUMBER
217

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SAMPLE MEASUREMENT	14400	14400	(07)	7.98	7.98	(12)	0	1/7	GRAB
PERMIT REQUIREMENT	REPORT	REPORT		6.5	9.0				GRAB
SAMPLE MEASUREMENT				52	52	(14)	0	1/7	GRAB
PERMIT REQUIREMENT				25	100				GRAB
SAMPLE MEASUREMENT				0.011	0.011	(19)	0	1/7	GRAB
PERMIT REQUIREMENT				0.03	0.03				GRAB
SAMPLE MEASUREMENT				0.046	0.046	(15)	0	1/7	GRAB
PERMIT REQUIREMENT				0.3	0.3				GRAB
SAMPLE MEASUREMENT				22	22	(19)	0	1/7	GRAB
PERMIT REQUIREMENT				15	20				GRAB
SAMPLE MEASUREMENT							0	1/7	GRAB
PERMIT REQUIREMENT									GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Scott

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Scott

TELEPHONE NUMBER
888
AREA CODE NUMBER
425 4476

TYPED OR PRINTED

DATE
04 11 02

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

WASTEWATER MONITORING REPORT (WWMR)

ADDRESS

PERMIT NUMBER

DISCHARGE NUMBER

FACILITY LOCATION

FACILITY IDENTIFICATION BOARD

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 02 10 31 TO 04 10 31

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPED OR PRINTED SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE DATE									

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

DISCHARGE MONITORING REPORT (DMR)

ADDRESS: 2000 S. 1000 E. SALT LAKE CITY, UT 84143

PERMIT NUMBER: 873020750

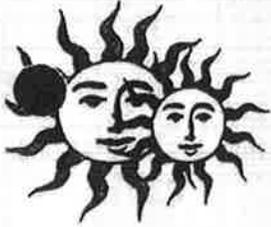
UT 84520

FACILITY: SERRAVALLO CONCRETE SOLUTION ASSOC.
 LOCATION: EAST CARBOR
 OPERATOR: RANDI J. SCOTT, PLANT MANAGER

MONITORING PERIOD: FROM 04 10 01 TO 04 10 31

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
CO2, TOTAL			(25)				0	ONCE / MONTH	LOAD
AMMONIA		2000	DAILY						SRAR
PHOSPHATE GROSS VALUE									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									
NAME/TITLE: KODRY SCOTT, PRINCIPAL EXECUTIVE OFFICER TYPED OR PRINTED: [Signature] COMMENTS AND EXPLANATION OF ANY VIOLATIONS: (Reference all attachments here)									
								TELEPHONE: 588 4174	
								DATE: 04 11 20	
								AREA CODE: 437	
								NUMBER: 588	



Sunnyside Cogeneration Associates

COPY

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

December 12, 2005

Kari Lundeen
Division of Water Quality
288 North 1460 West
Salt Lake City, Utah 84114

RE: November 2005, Monitoring Period
UPDES Permit No. UT0024759
Discharge Monitoring Report Forms
Sunnyside Cogeneration Associates (SCA)

Dear Kari:

This letter summarizes the UPDES-permit field activities at the Sunnyside Cogeneration Facility during November 2005. Rusty Netz, the Plant Engineer for the facility, has physically inspected the permit outfalls in accordance with the UPDES permit guidelines.

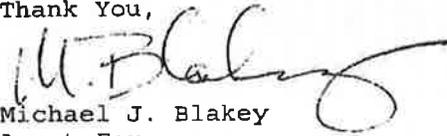
On November 1, 2005, pond 017, at the Sunnyside Facility, discharged due to continuing precipitation events. The discharge was the result of several consecutive days of rainfall. The discharge was sampled for parameters in accordance with Section I.D.6 of SCA's UPDES Permit.

The sampling result for pond 017, pertaining to TDS, was slightly above the permit protection level. The permit protection level is 1650 mg/L and the sampling result was 1700 mg/L. The pond discharged for less than a 24-hour period and was the only discharge since October 22, 2004.

Again, the discharge event only lasted for a 24-hour period, and no discharge has occurred since. Attached are the discharge sampling results and the discharge monitoring reports. Also, included are the 126-priority pollutant sampling results for pond 017, which is a sampling requirement for this particular pond.

If you have any questions or comments, please contact myself or Rusty Netz at (435)888-4476.

Thank You,


Michael J. Blakey
Agent For
Sunnyside Cogeneration Associates

cc. Robert Escalante
Rusty Netz
Plant File

PERMITTEE NAME/ADDRESS:

Name: SUNNYSIDE COGENERATION ASSOCIATES
 Address: #1 POWER PLANT ROAD
 SUNNYSIDE UT. 84539

Facility: SUNNYSIDE COGENERATION ASSOCIATES
 Location: SUNNYSIDE UT. 84539
 ATTN: Michael J. Blakey, Plant Manager

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

UT0424799 PERMIT NUMBER
 DISCHARGE NUMBER 017 A
 MONITORING PERIOD FROM 11/12/2005 TO 11/30/2005

FORM APPROVED
 OMB No. 2040-0004

MINOR

F - FINAL
 LANDFILL SEDIMENTATION POND
 Discharge to ICELANDER CREEK
 *** NO DISCHARGE

PARAMETER	QUANTITY FOR LOADING		QUALITY OR CONCENTRATION		NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE			
MEASUREMENT FLOW RATE 00056 1 0 0	600	600			0	17	MEASURED
PERMIT REQUIREMENT EFFLUENT GROSS VALUE	REPORT 30DAY AVG.	REPORT DAILY MAX.				ONCE/MONTH	MEASURED
SAMPLE REQUIREMENT							
PERMIT REQUIREMENT PH 00400 1 0 0			7.99	7.99	0	17	GRAB
PERMIT REQUIREMENT EFFLUENT GROSS VALUE			6.5	9.0		ONCE/MONTH	GRAB
SAMPLE REQUIREMENT			MINIMUM	MAXIMUM			
MEASUREMENT SOLIDS, TOTAL SUSPENDED 00530 1 0 0	7	7	7	7	0	17	GRAB
PERMIT REQUIREMENT EFFLUENT GROSS VALUE	35	100	25	100		ONCE/MONTH	GRAB
SAMPLE REQUIREMENT			30DAY AVE.	DAILY MAX.			
MEASUREMENT OIL AND GREASE 03582 0 0 0	4.7	4.7		4.7	0	17	GRAB
PERMIT REQUIREMENT SEE COMMENTS BELOW						ONCE/MONTH	GRAB
SAMPLE REQUIREMENT							
MEASUREMENT SOLIDS, TOTAL DISSOLVED 70295 P 0 0					0	17	GRAB
PERMIT REQUIREMENT SEE COMMENTS BELOW						ONCE/MONTH	GRAB
SAMPLE REQUIREMENT							
MEASUREMENT CHROMIUM, TOTAL (AS CR) 01034 1 0 0					0	17	GRAB
PERMIT REQUIREMENT EFFLUENT GROSS VALUE						ONCE/MONTH	GRAB
SAMPLE REQUIREMENT							
MEASUREMENT ZINC, TOTAL (AS ZN) 01090 1 0 0					0	17	GRAB
PERMIT REQUIREMENT EFFLUENT GROSS VALUE						ONCE/MONTH	GRAB
SAMPLE REQUIREMENT							
MEASUREMENT PCB, TOTAL, SCAN 04166 1 0 0					0	17	GRAB
PERMIT REQUIREMENT EFFLUENT GROSS VALUE						ANNUAL	GRAB
SAMPLE REQUIREMENT							
MEASUREMENT							
PERMIT REQUIREMENT							
NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER							DATE
MICHAEL J. BLAKEY PLANT MANAGER							12/10/2005
TYPE OF PRINTED							YEAR/MONTH/DAY
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)							
				SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER
				M.J. Blakey		(855)	888-4476

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.



ORGANIC ANALYSIS REPORT

Client: Cash Account
Project ID: Sunnyside Cogen

Contact: Rusty Netz

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Lab Sample ID: L68533-01G
Field Sample ID: **017 Sed-Pond**
Collected: 10/31/2005 9:00:00 AM
Received: 11/1/2005

Extracted: 11/14/2005
Analyzed: 11/14/2005

Analysis Requested: 608

Analytical Results

Priority Poll. Organochlorine Pest/PCBs by 608

463 West 3600 South
Salt Lake City, Utah
84115

Units = $\mu\text{g/L}$

Dilution Factor = 1

Compound	Reporting Limit	Analytical Result	
Aldrin	0.13	< 0.13	H
Heptachlor	0.13	< 0.13	H
Surr: Decachlorobiphenyl	10-134	87.8	H
Surr: Tetrachloro-m-xylene	10-137	57.4	H

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-mail: awal@awal-labs.com

H - The sample was re-extracted 7 days outside holding time solely for the analytes Aldrin & Heptachlor. The remaining analytes were reported on a separate analytical report

The reporting limits were raised ~1.3x due to limited sample volume for re-extraction.

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer



ORGANIC ANALYSIS REPORT

Client: Cash Account
Project ID: Sunnyside Cogen

Contact: Rusty Netz

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Lab Sample ID: L68533-01D
Field Sample ID: **017 Sed-Pond**
Collected: 10/31/2005 9:00:00 AM
Received: 11/1/2005

Analyzed: 11/2/2005 3:56:00 PM

Analysis Requested: 8260B/5030A

Analytical Results

Priority Pollutant VOCs by 624

Units = µg/L

Dilution Factor = 10

463 West 3600 South
Salt Lake City, Utah
84115

Compound

Reporting Limit

Analytical

Result

Compound	Reporting Limit	Analytical Result
Acrolein	100	< 100
Acrylonitrile	100	< 100
Benzene	20	< 20
Bromoform	20	< 20
Carbon tetrachloride	20	< 20
Chlorobenzene	20	< 20
Dibromochloromethane	20	< 20
Chloroethane	20	< 20
2-Chloroethylvinylether	50	< 50
Chloroform	20	< 20
Bromodichloromethane	20	< 20
1,1-Dichloroethane	20	< 20
1,2-Dichloroethane	20	< 20
1,1-Dichloroethene	20	< 20
1,2-Dichloropropane	20	< 20
cis 1,3-Dichloropropene	20	< 20
trans 1,3-Dichloropropene	20	< 20
Ethylbenzene	20	< 20
Bromomethane	50	< 50
Chloromethane	50	< 50
Methylene chloride	20	< 20
Naphthalene	20	< 20
1,1,2,2-Tetrachloroethane	20	< 20
Tetrachloroethene	20	< 20
Toluene	20	< 20
trans 1,2-Dichloroethene	20	< 20
1,1,1-Trichloroethane	20	< 20
1,1,2-Trichloroethane	20	< 20
Trichloroethene	20	< 20

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Toll Free (888) 263-8686

Fax (801) 263-8687

e-mail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer



Lab Sample ID: L68533-01D
 Field Sample ID: 017 Sed-Pond
 Collected: 10/31/2005 9:00:00 AM
 Received: 11/1/2005

Analyzed: 11/2/2005 3:56:00 PM

Analysis Requested: 8260B/5030A

**AMERICAN
 WEST
 ANALYTICAL
 LABORATORIES**

Analytical Results

Priority Pollutant VOCs by 624

Units = µg/L

Dilution Factor = 10

Compound	Reporting Limit	Analytical Result
Vinyl chloride	10	< 10
Surr: 1,2-Dichloroethane-d4	81-120	102
Surr: 4-Bromofluorobenzene	85-115	100
Surr: Dibromofluoromethane	85-115	101
Surr: Toluene-d8	85-115	101

463 West 3600 South
 Salt Lake City, Utah
 84115

The reporting limits were raised 10x due to sample matrix interference.

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Kyle F. Gross
 Laboratory Director

Peggy McNicol
 QA Officer



**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

November 15, 2005

Rusty Netz
Cash Account

463 West 3600 South
Salt Lake City, Utah
84115

TEL :

FAX:

RE: Sunnyside Cogen

Lab Set ID: L68533

Dear Rusty Netz:

American West Analytical Labs received 1 sample on 11/1/2005 for the analyses presented in the following report.

(801) 263-8686
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Fax (801) 263-8687
e-mail: awal@awal-labs.com

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Approved by: 
Laboratory Director or designee



INORGANIC ANALYSIS REPORT

Client: Cash Account
Project ID: Sunnyside Cogen

Contact: Rusty Netz

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Lab Sample ID: L68533-01C
Field Sample ID: **017 Sed-Pond**
Collected: 10/31/2005 9:00:00 AM
Received: 11/1/2005

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Antimony	mg/L	11/10/2005 3:58:51 PM	200.8	0.0050	< 0.0050
Arsenic	mg/L	11/10/2005 3:58:51 PM	200.8	0.0050	< 0.0050
Beryllium	mg/L	11/10/2005 3:58:51 PM	200.8	0.0010	< 0.0010
Cadmium	mg/L	11/10/2005 3:58:51 PM	200.8	0.0040	< 0.0040
Chromium	mg/L	11/5/2005 1:47:39 PM	200.7	0.010	< 0.010
Copper	mg/L	11/10/2005 3:58:51 PM	200.8	0.0040	0.0057
Lead	mg/L	11/10/2005 3:58:51 PM	200.8	0.0050	< 0.0050
Mercury	mg/L	11/7/2005 10:46:00 AM	245.1	0.00020	< 0.00020
Nickel	mg/L	11/10/2005 3:58:51 PM	200.8	0.0050	0.0094
Selenium	mg/L	11/10/2005 3:58:51 PM	200.8	0.0050	0.0070
Silver	mg/L	11/10/2005 3:58:51 PM	200.8	0.0050	< 0.0050
Thallium	mg/L	11/10/2005 3:58:51 PM	200.8	0.0010	< 0.0010
Zinc	mg/L	11/10/2005 3:58:51 PM	200.8	0.010	0.034

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Salt Lake City, Utah
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e-mail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

*depend selenium needed
chromium*



INORGANIC ANALYSIS REPORT

Client: Cash Account
Project ID: Sunnyside Cogen

Contact: Rusty Netz

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Lab Sample ID: L68533-01
Field Sample ID: **017 Sed-Pond**
Collected: 10/31/2005 9:00:00 AM
Received: 11/1/2005

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
Oil & Grease	mg/L	11/01/05	EPA 1664	3.0	4.7
TDS	mg/L	11/01/05	160.1	10	1700
TSS	mg/L	11/01/05	160.2	3.0	7.0

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Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer



ORGANIC ANALYSIS REPORT

Client: Cash Account
Project ID: Sunnyside Cogen

Contact: Rusty Netz

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Lab Sample ID: L68533-01E
Field Sample ID: **017 Sed-Pond**
Collected: 10/31/2005 9:00:00 AM
Received: 11/1/2005

Extracted: 11/3/2005 6:58:33 PM
Analyzed: 11/4/2005 9:47:00 PM

Analysis Requested: Semi Volatiles by 625

Analytical Results

Priority Pollutant SVOAs by 625

Units = $\mu\text{g/L}$

Dilution Factor = 1

463 West 3600 South
Salt Lake City, Utah
84115

Compound	Reporting Limit	Analytical Result
Acenaphthene	5.0	< 5.0
Acenaphthylene	5.0	< 5.0
Anthracene	5.0	< 5.0
Benzidine	25	< 25
Benz(a)anthracene	5.0	< 5.0
Benzo(a)pyrene	5.0	< 5.0
Benzo(b)fluoranthene	10	< 10
Benzo(g,h,i)perylene	5.0	< 5.0
Benzo(k)fluoranthene	5.0	< 5.0
Bis(2-chloroethoxy)methane	5.0	< 5.0
Bis(2-chloroethyl)ether	10	< 10
Bis(2-chloroisopropyl)ether	5.0	< 5.0
Bis(2-ethylhexyl)phthalate	5.0	< 5.0
4-Bromophenyl phenyl ether	5.0	< 5.0
Butyl benzyl phthalate	5.0	< 5.0
2-Chloronaphthalene	5.0	< 5.0
4-Chlorophenyl phenyl ether	5.0	< 5.0
Chrysene	5.0	< 5.0
Dibenz(a,h)anthracene	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
3,3'-Dichlorobenzidine	5.0	< 5.0
Diethyl phthalate	5.0	< 5.0
Dimethyl phthalate	5.0	< 5.0
Di-n-butyl phthalate	5.0	< 5.0
2,4-Dinitrotoluene	5.0	< 5.0
2,6-Dinitrotoluene	5.0	< 5.0
Di-n-octyl phthalate	5.0	< 5.0

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Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer



Lab Sample ID: L68533-01E
 Field Sample ID: 017 Sed-Pond
 Collected: 10/31/2005 9:00:00 AM
 Received: 11/1/2005

Extracted: 11/3/2005 6:58:33 PM
 Analyzed: 11/4/2005 9:47:00 PM

Analysis Requested: Semi Volatiles by 625

AMERICAN
 WEST
 ANALYTICAL
 LABORATORIES

Analytical Results

Priority Pollutant SVOAs by 625

Units = µg/L

Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
Azobenzene	10	< 10
Fluoranthene	5.0	< 5.0
Fluorene	5.0	< 5.0
Hexachlorobenzene	5.0	< 5.0
Hexachlorobutadiene	5.0	< 5.0
Hexachlorocyclopentadiene	5.0	< 5.0
Hexachloroethane	5.0	< 5.0
Indeno(1,2,3-cd)pyrene	5.0	< 5.0
Isophorone	5.0	< 5.0
Naphthalene	5.0	< 5.0
Nitrobenzene	5.0	< 5.0
N-Nitrosodimethylamine	10	< 10
N-Nitrosodi-n-propylamine	5.0	< 5.0
N-Nitrosodiphenylamine	5.0	< 5.0
Phenanthrene	5.0	< 5.0
Pyrene	5.0	< 5.0
1,2,4-Trichlorobenzene	5.0	< 5.0
2-Chlorophenol	5.0	< 5.0
2,4-Dichlorophenol	5.0	< 5.0
2,4-Dimethylphenol	5.0	< 5.0
4,6-Dinitro-2-methylphenol	5.0	< 5.0
2,4-Dinitrophenol	5.0	< 5.0
2-Nitrophenol	5.0	< 5.0
4-Nitrophenol	5.0	< 5.0
4-Chloro-3-methylphenol	5.0	< 5.0
Pentachlorophenol	5.0	< 5.0
Phenol	5.0	< 5.0
2,4,6-Trichlorophenol	5.0	< 5.0
Surr: 2,4,6-Tribromophenol	14-159	159
Surr: 2-Fluorobiphenyl	10-124	59.1
Surr: 2-Fluorophenol	10-92	56.3
Surr: 4-Terphenyl-d14	10-158	80.6
Surr: Nitrobenzene-d5	10-129	88.6

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 84115

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 e-mail: awal@awal-labs.com

Kyle F. Gross
 Laboratory Director

Peggy McNicol
 QA Officer



Lab Sample ID: L68533-01E
 Field Sample ID: 017 Sed-Pond
 Collected: 10/31/2005 9:00:00 AM
 Received: 11/1/2005

Extracted: 11/3/2005 6:58:33 PM
 Analyzed: 11/4/2005 9:47:00 PM

Analysis Requested: Semi Volatiles by 625

**AMERICAN
 WEST
 ANALYTICAL
 LABORATORIES**

Analytical Results

Priority Pollutant SVOAs by 625

Units = µg/L

Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
Surr: Phenol-d6	10-75	42.4

463 West 3600 South
 Salt Lake City, Utah
 84115

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Kyle F. Gross
 Laboratory Director

Peggy McNicol
 QA Officer



ORGANIC ANALYSIS REPORT

Client: Cash Account
Project ID: Sunnyside Cogen

Contact: Rusty Netz

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Lab Sample ID: L68533-01F
Field Sample ID: **017 Sed-Pond**
Collected: 10/31/2005 9:00:00 AM
Received: 11/1/2005

Extracted: 11/7/2005 5:20:41 PM
Analyzed: 11/10/2005

Analysis Requested: 608

Analytical Results

Priority Poll. Organochlorine Pest/PCBs by 608

463 West 3600 South
Salt Lake City, Utah
84115

Units = $\mu\text{g/L}$

Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
alpha-BHC	0.10	< 0.10
beta-BHC	0.10	< 0.10
delta-BHC	0.10	< 0.10
gamma-BHC (lindane)	0.10	< 0.10
Chlordane	0.25	< 0.25
4,4'-DDD	0.10	< 0.10
4,4'-DDE	0.10	< 0.10
4,4'-DDT	0.10	< 0.10
Dieldrin	0.10	< 0.10
Endosulfan I	0.10	< 0.10
Endosulfan II	0.10	< 0.10
Endosulfan sulfate	0.10	< 0.10
Endrin	0.10	< 0.10
Endrin aldehyde	0.10	< 0.10
Heptachlor epoxide	0.10	< 0.10
Toxaphene	0.25	< 0.25
Aroclor 1221	0.50	< 0.50
Aroclor 1232	0.50	< 0.50
Aroclor 1248	0.50	< 0.50
Aroclor 1254	0.50	< 0.50
Aroclor 1260	0.50	< 0.50
Surr: Decachlorobiphenyl	10-134	90.6
Surr: Tetrachloro-m-xylene	10-137	56.0

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Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Aldrin & Heptachlor were reported from a re-extraction outside holding times, and on a separate analytical report. Aroclors 1016 & 1242, not listed here on analytical report, were not detected above a PQL of 0.5 $\mu\text{g/L}$

American West Analytical Labs

WORK ORDER Summary

01-Nov-05

Work Order L68533

Client ID: WALKIN
 Project: Sunnyside Cogen
 Comments: QCLevel: 1

QC Level: 1
 Location: 40F W

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage
L68533-01A	017 Sed-Pond	10/31/2005 9:00:00 AM	11/1/2005	11/15/2005	Aqueous	TDS-W	ww - tss/tds 1
L68533-01B				11/15/2005		TSS-W	ww - tss/tds 1
L68533-01C				11/15/2005		OGB-W	ogb 1
				11/15/2005		200.7PR	nov 1 - metals 1
				11/15/2005		200.8-W	nov 1 - metals 1
				11/15/2005		200.8PR	nov 1 - metals 1
				11/15/2005		HG-DW	nov 1 - metals 1
				11/15/2005		HG-PREP-DW	nov 1 - metals 1
L68533-01D				11/15/2005		ICP-DW	nov 1 - metals 1
L68533-01E				11/15/2005		624-W-PP	nov 1 - metals 1
				11/15/2005		3510_Semi	VOC 3
				11/15/2005		625-W-PP	hall - semi 1
L68533-01F				11/15/2005		3510_Pest	hall - semi 1
				11/15/2005		608-W-PP	hall - pest/pcb 1
				11/15/2005			hall - pest/pcb 1

60000

X-107

Client Sunnyside Co-gen
Address #1 Power Plant Road
Sunnyside UT 84539
City State Zip
Phone 435-888-4476 Fax 435-888-2538

Contact Rusty Netz
E-mail Rnetz@emerytelcom.net
Project Name _____
Project Number/P.O.# _____
Sampler Name _____

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3690 South
Salt Lake City, Utah 84115
Email: awal@awal-labs.com
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687

Lab Sample Set # 08533
Page _____ of _____
Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard
QC 1 2 3 4

A

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	COMMENTS
017 sed-pond	10/15/05		8	
<p><i>This is the priority pollutants wrong date. should 12/0 have been 11/05 which include metals. Also oil and grease, TSS, DS, Total Chromium and ZINC. Also</i></p>				

Received By: Signature [Signature] PRINT NAME Rusty Netz
 Received By: Signature _____ PRINT NAME _____
 Received By: Signature _____ PRINT NAME _____

Special Instructions:
Test for E-Coli
 Voice mail message left for Rusty Netz informed him that this E-Coli test could not be performed on the bottles provided. - Bud 11/1/05
 11-4-05 spoke with Rusty and told him the list we are using

LABORATORY USE ONLY

SAMPLES WERE:
 1 Shipped by hand delivered Notes: (Circled)
 2 Ambient or Chilled Notes: (Circled)
 3 Temperature 12°C
 4 Received Broken/Leaking (Improperly Sealed) Notes: (Circled)
 5 Properly Preserved Notes: (Circled)
 6 Received Within Holding Times Notes: (Circled)

COC Tape Was:
 1 Present on Outer Package (Circled) NA
 2 Unbroken on Outer Package (Circled) NA
 3 Present on Sample (Circled) NA
 4 Unbroken on Sample (Circled) NA

Discrepancies Between Sample Labels and COC Record? (Circled) Notes: _____